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ARMSTRONG TOOLS
A Danaher Brand

General Information

Made in the U.S.A.

Armstrong Tools marked Made in USA earn the honor of uncompromising quality and durability associated with American made tools. These tools are designed and manufactured, from forge to finish, in the USA in accordance with the Federal Trade Commission "all or virtually all" standard reaffirmed in December 1997. Armstrong Tools is proud to support the all or virtually all standard for Made in USA and is committed to offering you the finest selection of Industrial Hand Tools.

Lifetime Guarantee

If any Armstrong Tool ever fails to give complete satisfaction, return it to your Armstrong Distributor, and it will be repaired or replaced free of charge. No claim for damages of any nature will be allowed, and all our products are sold with this express understanding.

(It is expected that Ratchets, Torque Wrenches, etc.—whose moving parts are subject to wear through normal use—will be repaired by the user with cataloged repair kits or returned to Chicago for repair at the user's expense. Nevertheless, should you become truly dissatisfied, for any reason, the above guarantee will be honored.)

Liability

The Danaher Tool Group is not responsible for personal injury or damage resulting from improper tool usage, product modification, abuse or usage beyond expected product life.

Federal and ANSI Specifications

Federal and ANSI specifications contained in this catalog are intended as a guide only for tool classification and do not infer that the tool identified is in full compliance with the specification indicated. For specific information regarding compliance, please contact our general office at 1-800-866-5753.

Dimensions

All dimensions contained in this catalog are nominal. If minimum/maximum dimensions must be determined, please contact our general office at 1-800-866-5753.

Finishes, materials, dimensions and designs are subject to change without notice. Armstrong also reserves the right to discontinue items at any time without notice as part of our ongoing product development.

Where to Buy Armstrong Tools

Armstrong Tools are carried in stock by Industrial Distributors in all market areas of the U.S.A. and Canada, and in many countries around the world. If you do not know the name of your local Armstrong Distributor, please write or call our general office at 1-800-866-5753, and we will supply this information.

Specials

It will be to your advantage to use standard Armstrong Tools whenever possible and this should always be taken into consideration in product design.

But where a special is necessary, you can depend upon Armstrong for prompt attention to your inquiry, capability to manufacture a great variety of tool products, and top quality.

Prices

Prices are not listed in this catalog. Please contact your local Armstrong Distributor for Price information, or, if you prefer, call our general office at 1-800-866-5753 for a copy of our Price Sheet.

SAFETY NOTICE

While we pride ourselves in the quality and dependability we build into Armstrong Tools, we caution tool users that it is only prudent to know and follow the simple rules of safety when using our products, or anyone else's.

It is common knowledge among tool users that safety goggles must always be worn by persons in any area where:

1. Striking and struck tools (hammers, chisels, etc.) are in use.
2. Power guns (with screwdriver bits, power sockets, etc.) are in use.
3. Cutting tools (tool bits, cut-off blades, etc.) are in use.
4. Pipe threading tools are in use.

Not so commonly recognized though is the need for eye protection when using any type of hand tool. There is no way of knowing when a chunk of the workpiece or of the tool itself may be propelled in your direction, and since you only have one pair of eyes doesn't it make sense to protect them at all times? We recommend the wearing of safety goggles when using any hand tool or machine shop tool.

- Nuts should always be seated properly in wrench and socket opening before any torque is applied.
- Open ends of wrenches should be used for speed only and never to break loose a frozen nut or for final tightening. Use a box wrench when snugging up or breaking loose.
- Never apply excess leverage to a wrench or drive tool by means of a "cheater bar", nor should wrenches and drive tools be struck with hammers or other objects.
- Never use hand sockets on power or impact drivers. Power Sockets are designed for this purpose. However, once used on power drive, even Power Sockets should never thereafter be used on hand applications.
- All tools should be kept clean, inspected from time-to-time and replaced when they show signs of wear.
- Be especially careful not to place yourself in a position that could result in bodily injury in the event of a failure. Brace yourself firmly and pull rather than push when wrenching (if necessary to push, do so with flat of hand rather than gripping around the wrench). Never stand under or near heavy loads being hoisted off the ground.
- Additional safety tips are offered throughout this catalog. We also recommend two booklets:

  "Guide to Hand Tools: Selection; Safety Tips; Proper Use and Care". Published by the Hand Tools Institute, this booklet provides more complete information on the proper, safer use of hand tools.

  "Manual of Proper Uses of Forged Eye Bolts" Published by the Forged Eye Bolt Manufacturers Association, this booklet should always be consulted before eye bolts are used. (A copy is packed in every box of Armstrong Eye Bolts.)

  Either booklet may be ordered by sending your name and address to our Lancaster, PA office or calling 1-800-866-5753. Depending on quantity requested, there may be a nominal charge.

Contents

ARMSTRONG TOOLS
A Danaher Brand

The Armstrong Story 2
Armstrong and the Industrial Distributor 3

1 Master Sets 4

2 Hand Sockets and Drive Tools 22

3 Socket Sets 56

4 Tool Boxes 96

5 Power and Impact Sockets, Accessories and Sets 104

6 Mechanic's Wrenches and Sets 128

7 Industrial Wrenches and Sets 166

8 Torque Tools 182

9 Screwdrivers and Nut Drivers 190

10 Pliers and Snips 204

11 Related Hand Tools 220

12 Pullers and Pipe Tools 240

13 C-Clamps and Work Holding Tools 254

14 Tool Holders and Cutting Tools 264

15 Eye Bolts and Shop Accessories 282

16 Hex Keys and Sets 288

APPENDIX A ANSI and Federal Specifications 307
APPENDIX B Replacement Parts 309
APPENDIX C Master Set Contents 311
APPENDIX D Wrench Sizing Charts 321
Alphabetical Index 323
Product Number Index 327

The Armstrong Story

Armstrong family members and employees outside the Edgewood Avenue plant

The Armstrong Bros. Tool Co. was founded in 1890 by four brothers, the sons of a Scottish immigrant blacksmith. Initially the company manufactured and distributed bicycle parts, together with tools and equipment that were used in the manufacture and repair of bicycles.

In 1895, as part of their manufacturing program, the brothers introduced lathe tool holders. By 1900 this product appeared to have such promise—and the bicycle parts business had become so unprofitable—that the distributing portion of the business was closed out and the company began to devote full time to manufacturing.

So it was that the company's foundation was built upon the tool holder. These holders replaced the heavy, individually forged cutting tools that until then had been necessary for lathe work. With the Armstrong system, a forged permanent shank was used with various shapes of small, interchangeable cutting tools.

As advertised, the Armstrong system did indeed save "all forging and 70% of grinding," and by the mid 1900's the use of forged cutting tools in machine shops was virtually unheard of, replaced instead by the Armstrong System of Tool Holders.

The company's first manufacturing facilities were located in a wooden structure built across the back of two of the brothers' adjoining yards on Edgewood Ave. in Chicago, Ill. During the same time a store was maintained in downtown Chicago. In 1900, when the decision was made to devote full time to manufacturing, the store was closed and manufacturing operations were moved to a new plant at 617 Austin Ave.

On April Fools' Day in 1902, the Austin Ave. plant burned to the ground. But the company salvaged and re-conditioned its inventory, rebuilt the plant (doubling the floor space) and continued to grow. In 1905, needing still more space, property was purchased at 317 N. Francisco Ave., Chicago, and a 100,000 square foot, 3-story brick factory was built. At that time, the company was still involved only in the manufacture of tool holders and related machine tool accessory items. In 1909, with the building of a forge shop, Armstrong began their own forging operation and introduced a line of drop forged wrenches. From its modest beginning selling bicycle parts, the company had now launched into a line expansion that has continued through the years. Today the line includes nearly 5000 items of mechanic's tools, pipe and tubing tools, machine shop accessories, and cutting tools.

The company remained on Francisco Ave. until 1948, at which time it moved to its present headquarters at 5200 W. Armstrong Ave. on Chicago's northwest side, a plant covering about 216,000 square feet. A second manufacturing facility was built in Fayetteville, Arkansas, and began operations in 1974. Fayetteville boasts one of the most modern drop forge shops in the World, plus heat treating and various specialized machining equipment.

In December, 1994, after 105 years of private ownership by the Armstrong family, the company was acquired by the Danaher Corporation. Danaher's family of brands includes Allen and K-D Hand Tools, Allen Hex Keys, Holo-Krome Fasteners, Jacobs Chucks, Matco Hand Tools, and JS Technology Torque Tools, among others. The Danaher Commitment to continuous improvement will ensure the strict adherence to the high standards of quality, delivery and cost upon which Armstrong was founded.

Armstrong Tools are still, and will continue to be, made in America. They are designed and manufactured for professional tool users and, from our very beginning, we have refused to compromise our quality. It has been gratifying that over the years increasing numbers of people throughout the world, recognizing this tradition of excellence and its inherent value, have come to specify and demand Armstrong Tools.

Armstrong and the Industrial Distributor

ARMSTRONG TOOLS
A Danaher Brand

Since our company's inception in 1890, we have recognized Industrial Distributors as the most efficient and economical means of getting products from our plant into the hands of tool users.

Services performed by Industrial Distributors are far more sophisticated today than they were in 1890, and the Distributor's value is correspondingly greater to us and to the user of our tools. If you are not taking full advantage of these services, you are losing some of that value.

Local Inventory

The industrial Distributor serves as your Armstrong warehouse for daily off-the-shelf requirements of Armstrong Tools. We also recommend that you discuss with your Armstrong Distributor special requirements you may have for large quantities of specific tools. Our inventory adjustment policy makes it easy for the Distributor to customize his inventory to meet your specific requirements.

Pricing

Because your Armstrong Distributor buys directly from us and sells directly to you, you save the marketing costs inherent in multi-step distribution.

Service

"Service" is the Industrial Distributor's middle name. It's ours, too. Rely on your Armstrong Distributor to bail you out of those emergency situations, either from his own inventory or through quick, responsive interaction with our Customer Service Department.

Product Selection

With nearly 5000 tools listed in this catalog, you are almost certain to find what you need to do the job. But finding the exact tool to do the job most efficiently can be made easier if you rely on the knowledge and experience of your Armstrong Distributor's sales representative.

One-Stop Shopping

In addition to Armstrong Tools, your Industrial Distributor carries a broad selection of other top quality industrial products. His well-deserved reputation as the supermarket of industry offers you the convenience of one-stop shopping for virtually all your maintenance, repair, and operating needs.

Information

Your Industrial Distributor serves as a conduit of information concerning the new products and methods constantly being introduced in this rapidly changing world.

Cost Efficiencies

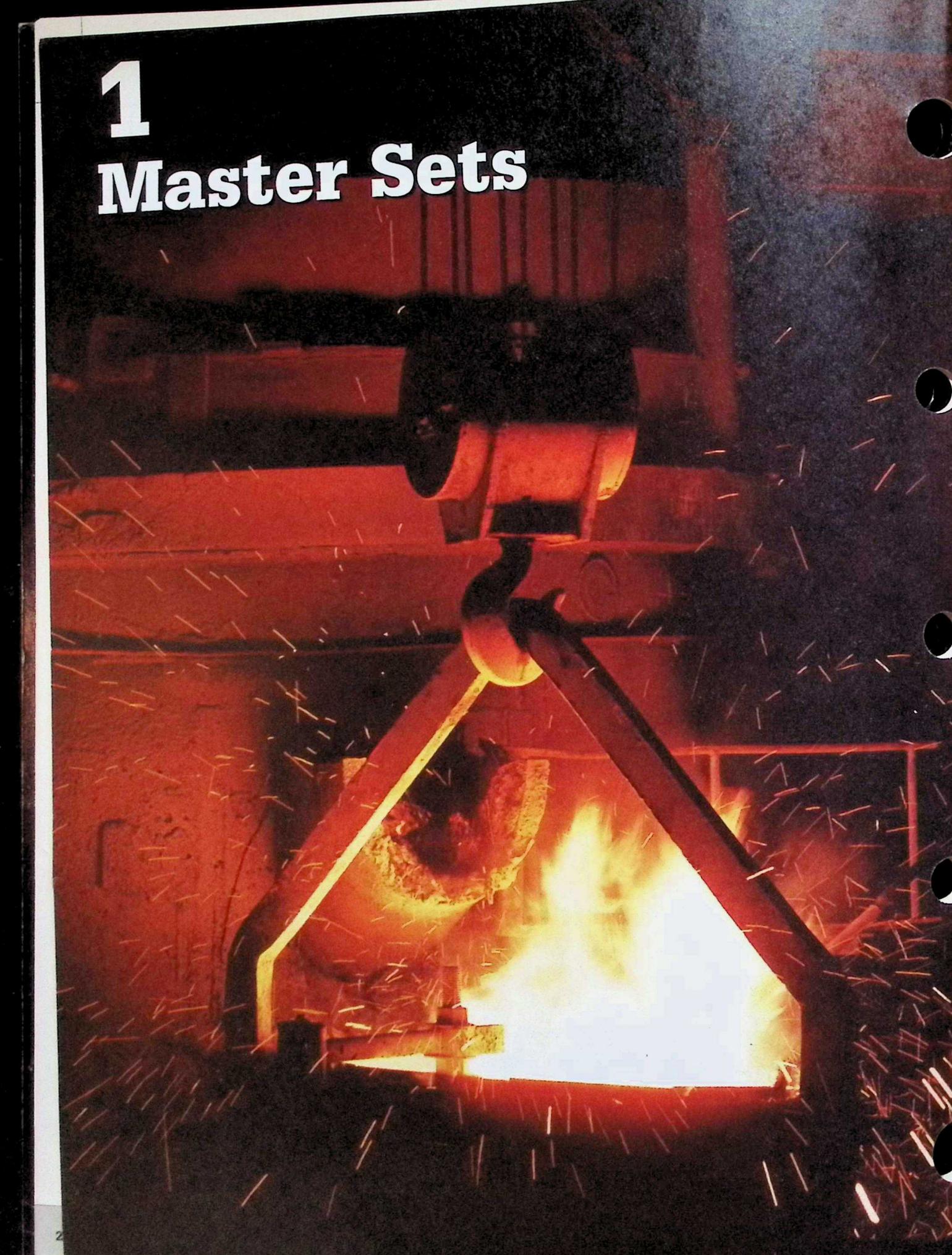
Industrial Distributors offer various types of systems contracts that can be very effective in reducing your procurement and inventory costs. Additionally, many distributors now offer EDI (electronic data interchange—computer to computer communications), and bar coding, to speed transactions and to improve accuracy.

INDUSTRIAL DISTRIBUTORS

HAND TOOLS INSTITUTE
HTI
CONSUMER · SAFETY · PROTECTION

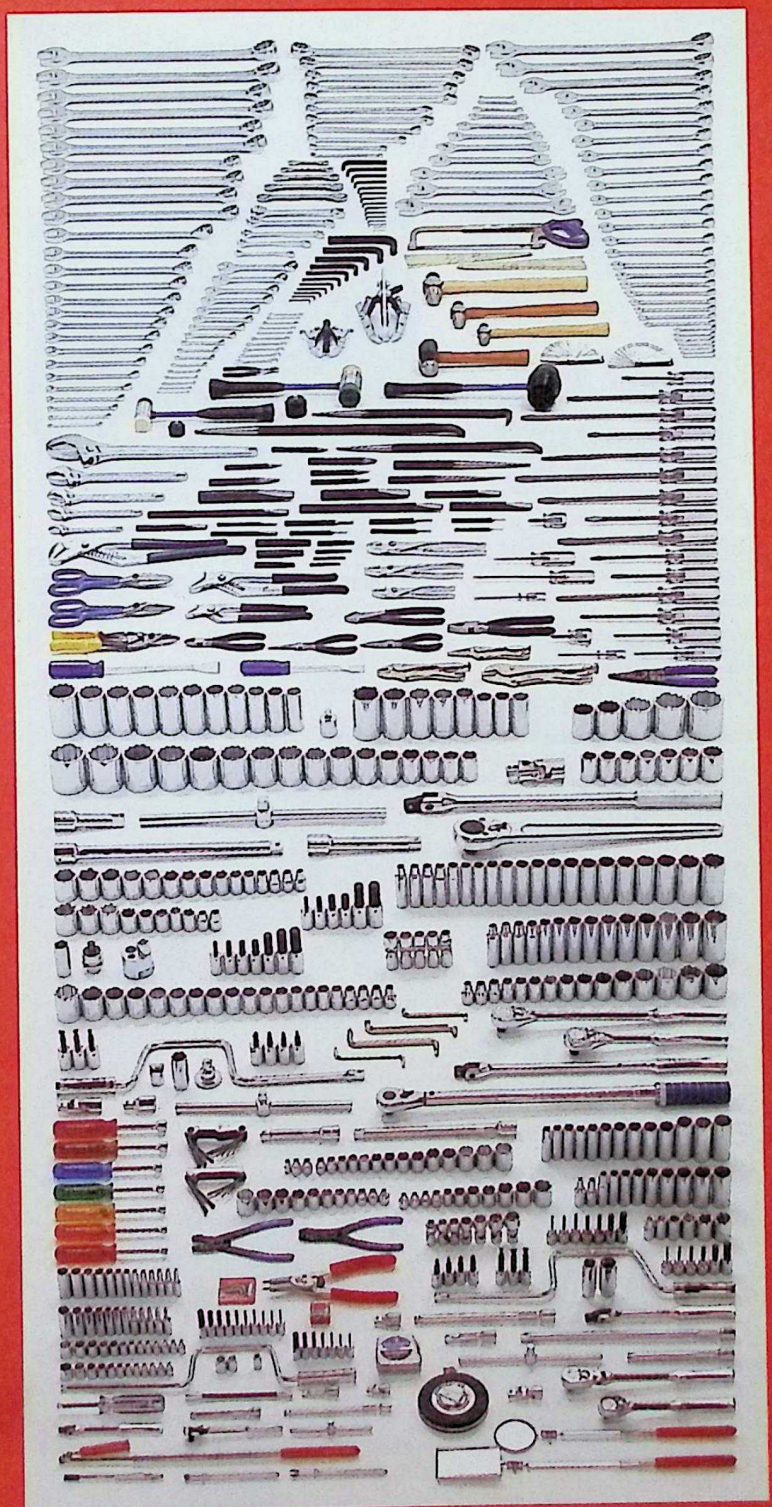
SPECIALTY TOOLS & FASTENERS DISTRIBUTING ASSOCIATION
STAFDA

1
Master Sets



Master Sets

The Armstrong Master Set line has been designed with the professional in mind. Our comprehensive line of sets is classified according to tool selection and use, for common applications or the most complex maintenance and repair. From the Basic and Intermediate Sets up to our Master Sets that contain more than 600 quality industrial tools, each set is designed to include the most popular tools with the larger sets building logically from the smaller sets.



BASIC SETS
Contain a range of the most popular tools.

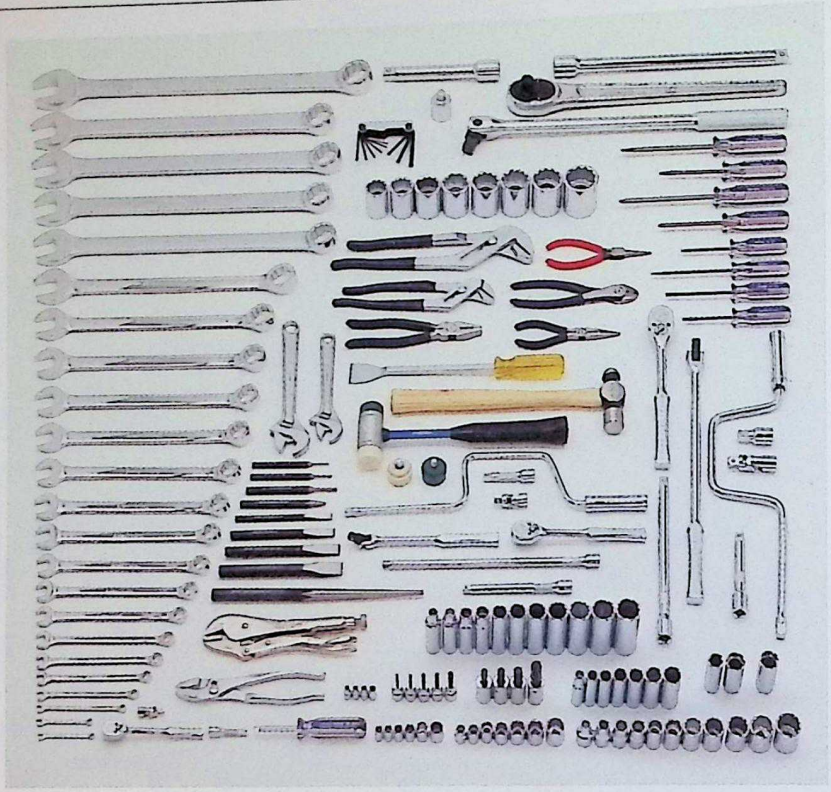
INTERMEDIATE SETS
An upgrade of tools for a more in-depth offering.

MASTER SETS
The most comprehensive and well-balanced selection of industrial hand tools available for the professional.

We offer a complete line of fractional and metric sets including single-drive-size sets and multiple-drive-size sets that range from 1/4" to 1". You can also choose from a range of add-on sets to complement your existing Armstrong industrial tool collection.

And to ensure maximum protection and organization of all your Armstrong Tools, our storage components have been specifically developed for each set and are manufactured with the same care and quality that our tools are.

ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS



Basic Mechanic's Set

Product Number 16-008
1/4", 3/8", 1/2" and 3/4" Drive
153 Tools in Steel Chest 16-722
Approx Wt. 141.5 lbs.

Contains:

66	Sockets
23	Drive Tools and Accessories
25	Wrenches
8	Pliers
17	Screw and Nut Turning Tools
13	Striking and Struck Tools
1	Miscellaneous Tool

Complete set contents listed in Appendix C.

Product Number 16-011
1/4", 3/8", 1/2" and 3/4" Drive
153 Tools Only
Approx Wt. 79.5 lbs.

SAFETY NOTICE

HAND TOOL SAFETY STARTS WITH QUALITY TOOLS!

HAVING THE "RIGHT" TOOL ALWAYS AVAILABLE HELPS ELIMINATE TOOL MISUSE!

A CONSTANT TOOL MAINTENANCE AND REPLACEMENT PROGRAM HELPS AVOID THE USE OF UNSAFE TOOLS.

Intermediate Mechanic's Set

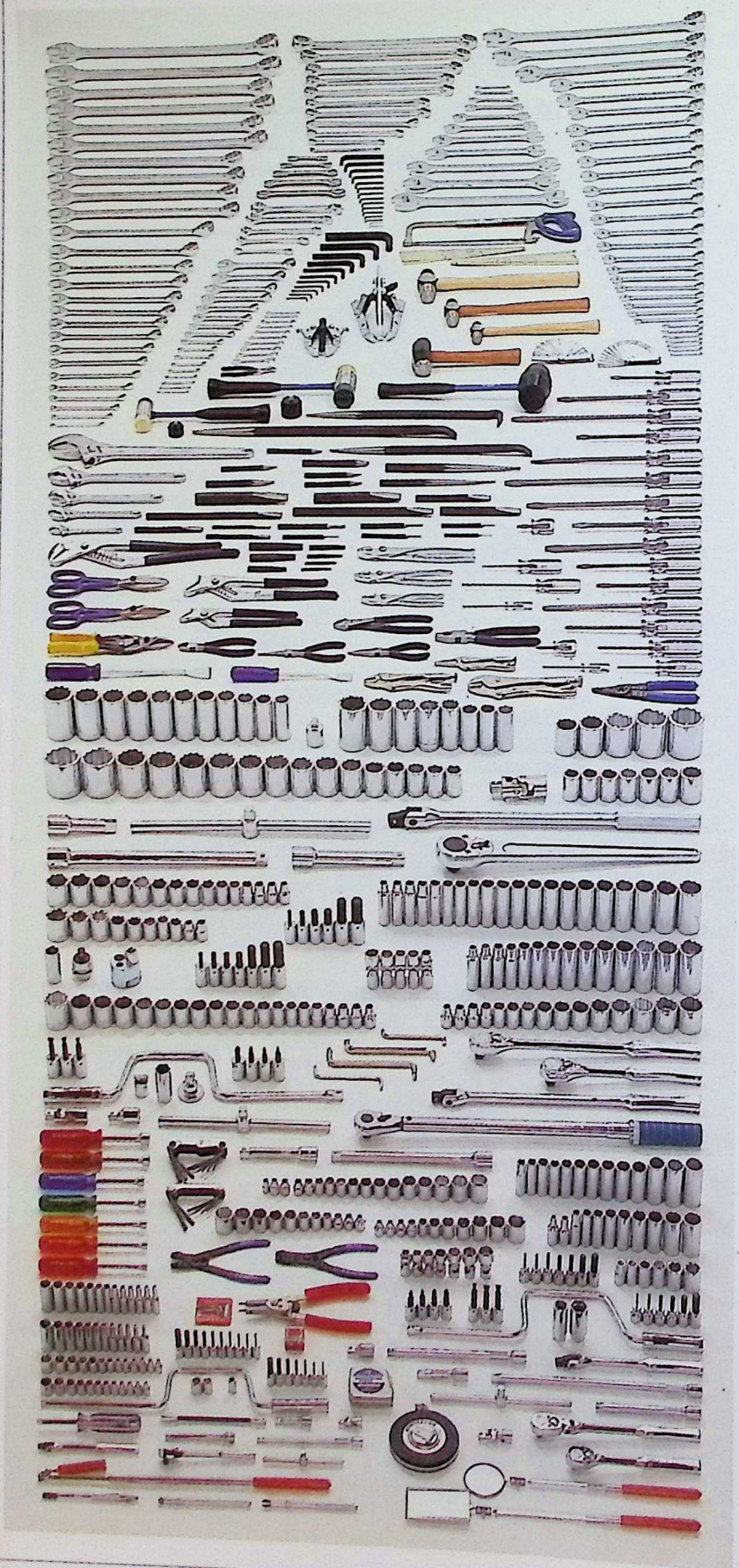
Product Number 16-009
1/4", 3/8", 1/2" and 3/4" Drive
246 Tools in Steel Chest 16-724
Approx Wt. 227.7 lbs.

Contains:

114	Sockets
26	Drive Tools and Accessories
47	Wrenches
11	Pliers
24	Screw and Nut Turning Tools
19	Striking and Struck Tools
5	Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 16-012
1/4", 3/8", 1/2" and 3/4" Drive
246 Tools Only
Approx Wt. 145.7 lbs.



Master Mechanic's Set

Product Number 16-010
1/4", 3/8", 1/2" and 3/4" Drive
660 Tools in Steel Chest 16-760 and Roller Cabinet 16-762
Approx Wt. 680.3 lbs.

Contains:

336	Sockets
42	Drive Tools and Accessories
118	Wrenches
21	Pliers
82	Screw and Nut Turning Tools
46	Striking and Struck Tools
15	Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 16-013
1/4", 3/8", 1/2" and 3/4" Drive
660 Tools Only
Approx Wt. 265.3 lbs.

Always wear eye

Master Mechanic's Metric Set

Product Number 43-009
1/4", 3/8", 1/2" and 3/4" Drive
271 Tools in Steel Chest 16-724
Approx Wt. 215.2 lbs. (97.6 KG)

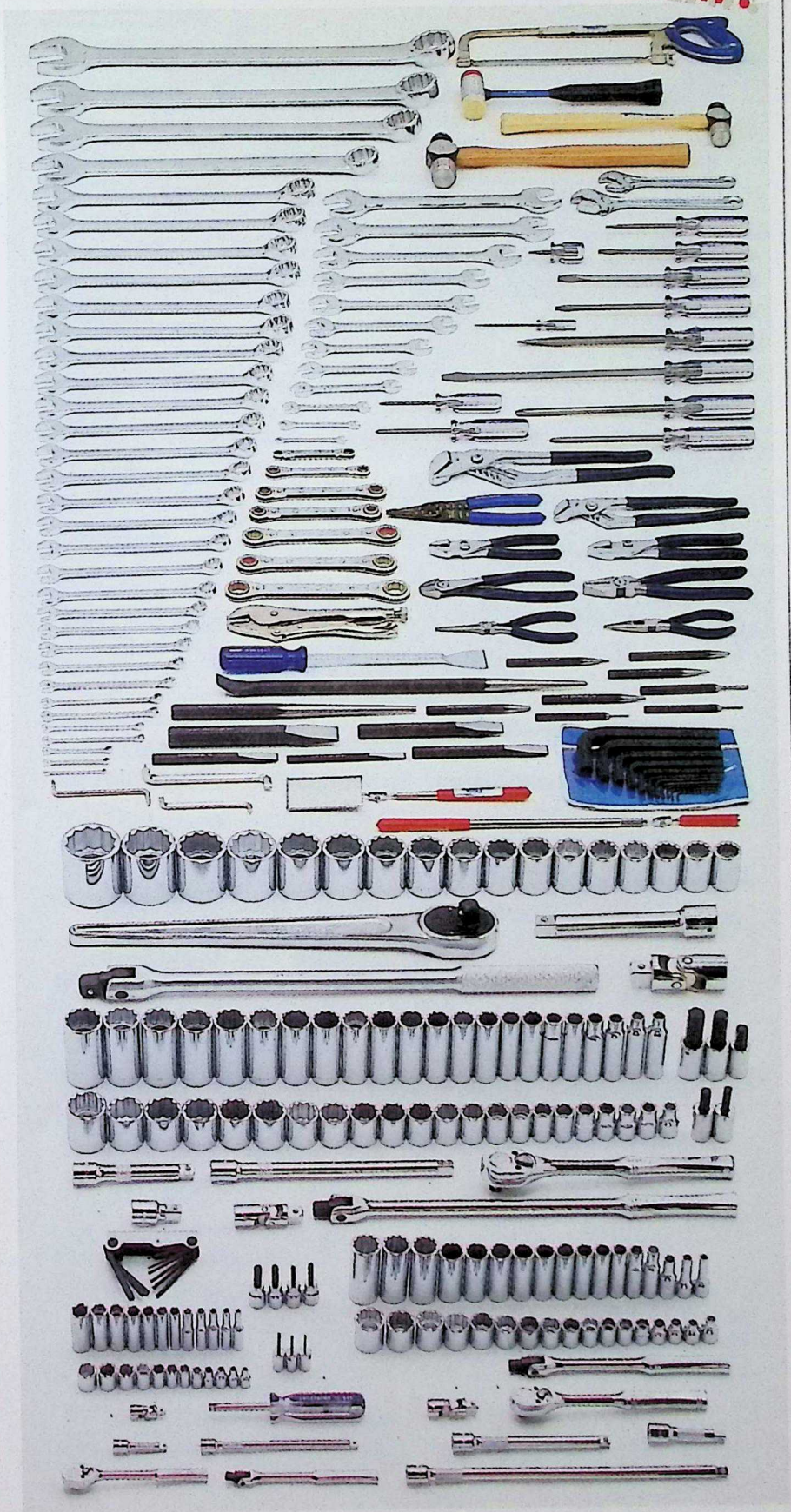
Contains:

131	Sockets
22	Drive Tools and Accessories
54	Wrenches
10	Pliers
30	Screw and Nut Turning Tools
20	Striking and Struck Tools
4	Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 43-010
1/4", 3/8", 1/2" and 3/4" Drive
271 Tools Only
Approx Wt. 133.2 lbs. (60.4 KG)

NEW!



ARMSTRONG TOOLS
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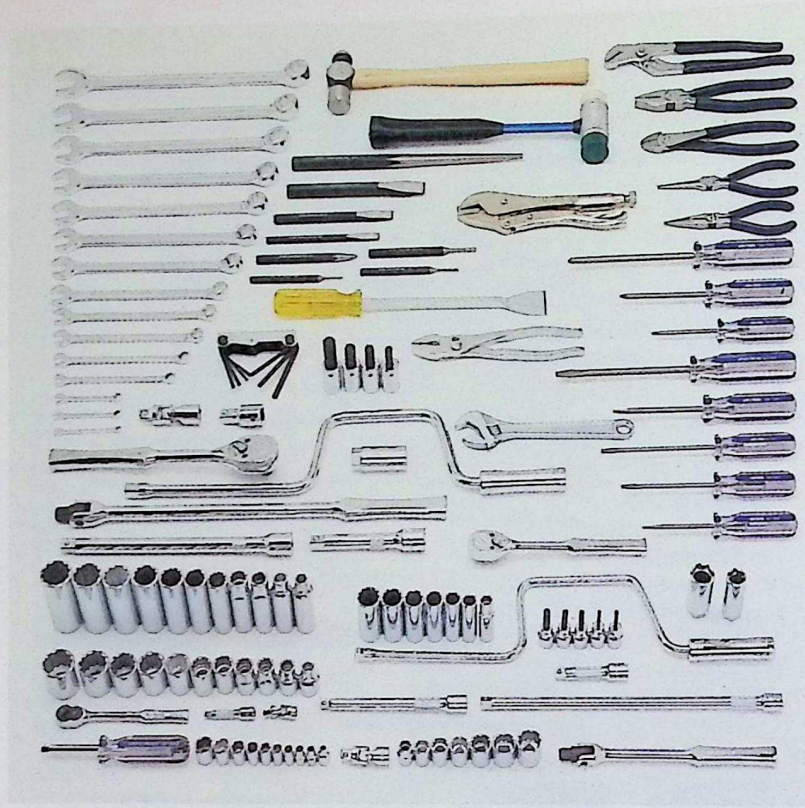

Basic Mechanic's Set

Product Number 16-016
1/4", 3/8" and 1/2" Drive
129 Tools in Steel Chest 16-722
Approx Wt. 99.7 lbs.

Contains:

- 58 Sockets
- 18 Drive Tools and Accessories
- 16 Wrenches
- 7 Pliers
- 17 Screw and Nut Turning Tools
- 12 Striking and Struck Tools
- 1 Miscellaneous Tool

Complete set contents listed in Appendix C.

Product Number 16-019
1/4", 3/8" and 1/2" Drive
129 Tools Only
Approx Wt. 37.7 lbs.

Always wear eye

Intermediate Mechanic's Set

Product Number 16-017
1/4", 3/8", and 1/2" Drive
214 Tools in Steel Chest 16-724
Approx Wt. 152.8 lbs.

Contains:

- 98 Sockets
- 21 Drive Tools and Accessories
- 37 Wrenches
- 11 Pliers
- 24 Screw and Nut Turning Tools
- 18 Striking and Struck Tools
- 5 Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 16-020
1/4", 3/8", and 1/2" Drive
214 Tools Only
Approx Wt. 70.8 lbs.

ARMSTRONG TOOLS
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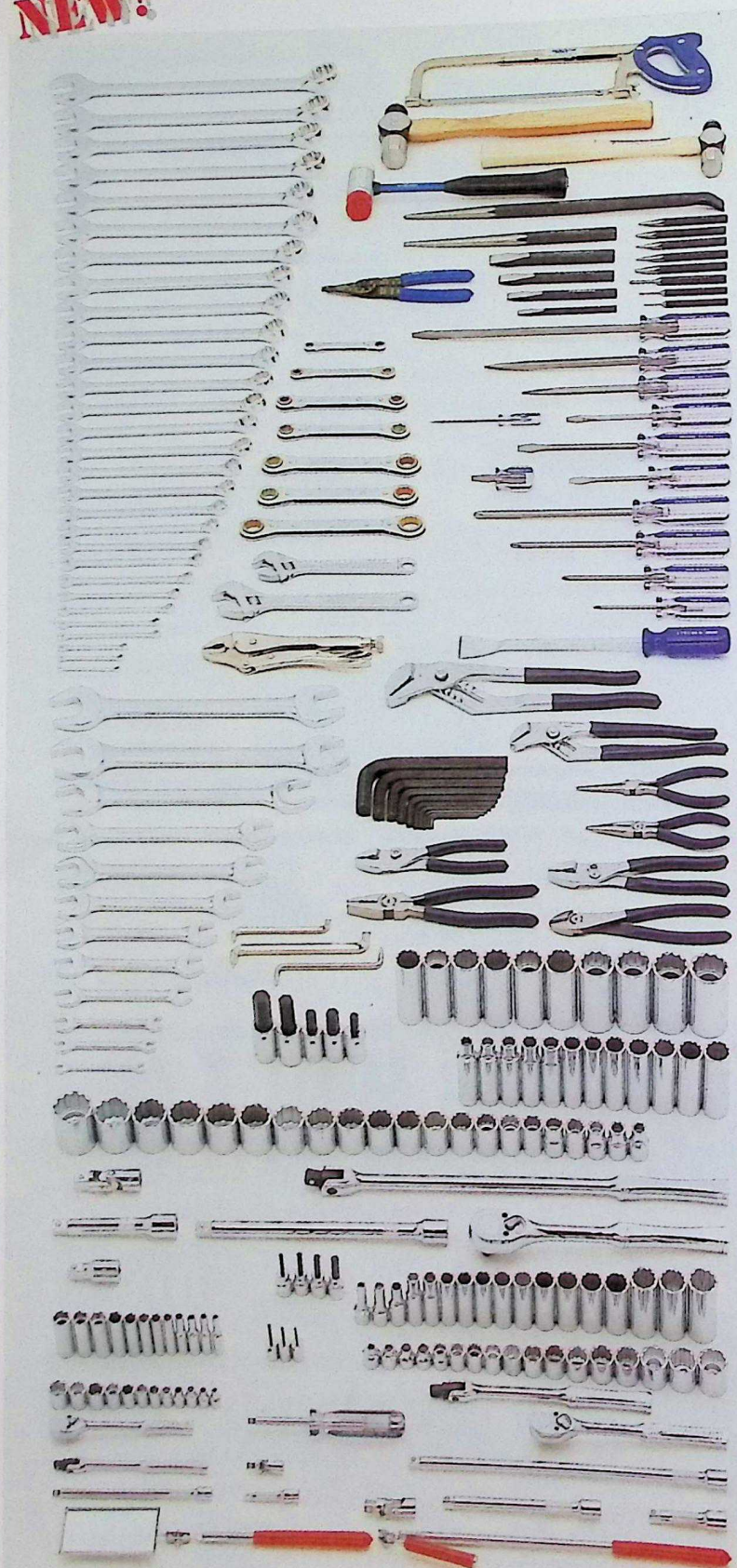
NEW!



Master Mechanic's Metric Set

Product Number 43-017
1/4", 3/8" and 1/2" Drive
245 Tools in Steel Chest 16-724
Approx Wt. 167.2 lbs. (75.8 KG)

Contains:

114	Sockets
18	Drive Tools and Accessories
50	Wrenches
10	Pliers
30	Screw and Nut Turning Tools
19	Striking and Struck Tools
4	Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 43-018
1/4", 3/8" and 1/2" Drive
245 Tools Only
Approx Wt. 85.2 lbs. (38.6 KG)

Always wear eye

Master Mechanic's Set

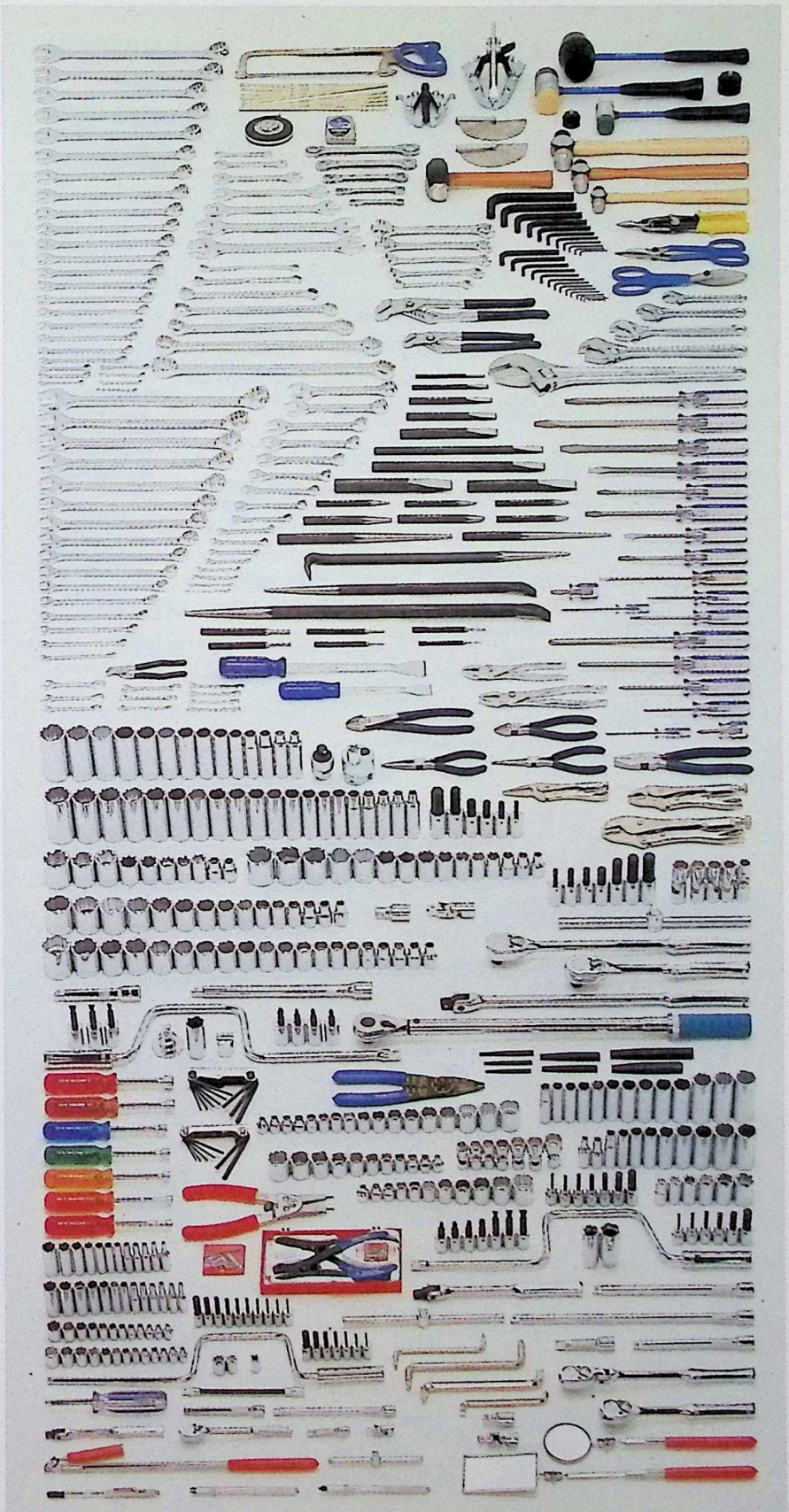
Product Number 16-018
1/4", 3/8", and 1/2" Drive
582 Tools in Steel Chest 16-760 and Roller Cabinet 16-762
Approx Wt. 546.5 lbs.

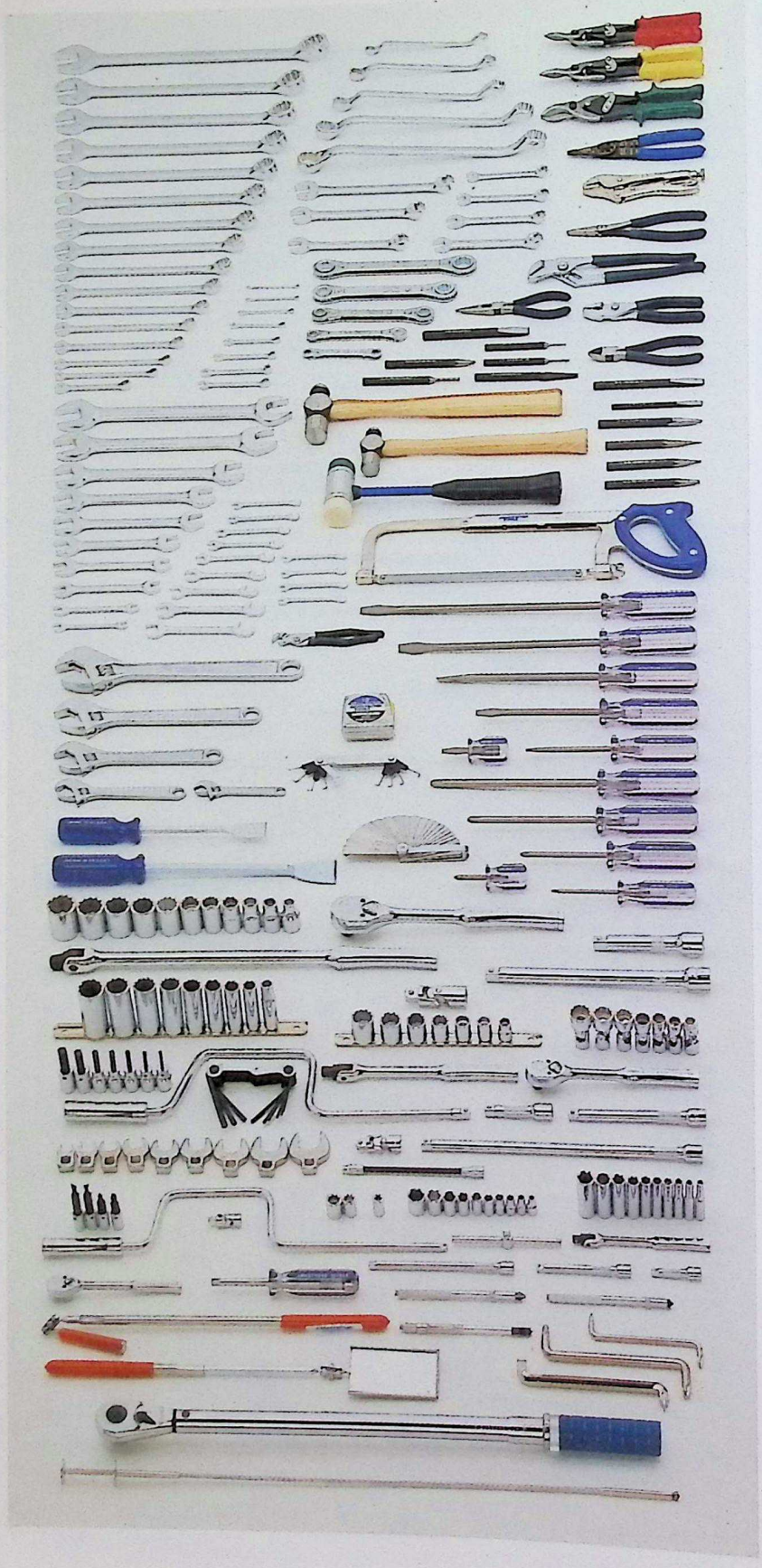
Contains:

289	Sockets
34	Drive Tools and Accessories
100	Wrenches
19	Pliers
79	Screw and Nut Turning Tools
46	Striking and Struck Tools
15	Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 16-021
1/4", 3/8", and 1/2" Drive
582 Tools Only
Approx Wt. 131.5 lbs.





Master Aircraft Maintenance Set

Product Number 16-023
1/4", 3/8", and 1/2" Drive
249 Tools in Roller Cabinet 16-744
Approx Wt. 200.2 lbs.

Contains:

- 77 Sockets
- 22 Drive Tools and Accessories
- 70 Wrenches
- 12 Pliers
- 26 Screw and Nut Turning Tools
- 17 Striking and Struck Tools
- 25 Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 16-024
1/4", 3/8", and 1/2" Drive
249 Tools Only
Approx Wt. 80.2 lbs.

Always wear eye protection wh

Master Industrial Maintenance Set

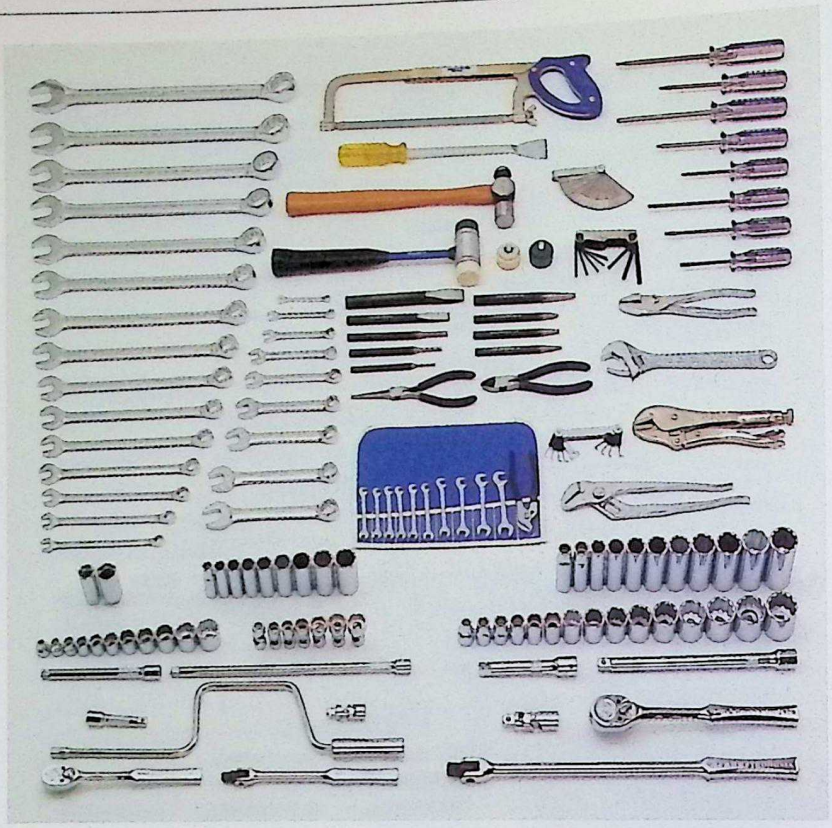
Product Number 16-030
3/8", 1/2" and 3/4" Drive
233 Tools in Steel Chest 16-760 and Roller Cabinet 16-762
Approx Wt. 487.8 lbs.

Contains:

- 98 Sockets
- 28 Drive Tools and Accessories
- 45 Wrenches
- 9 Pliers
- 25 Screw and Nut Turning Tools
- 25 Striking and Struck Tools
- 3 Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 16-031
3/8", 1/2" and 3/4" Drive
233 Tools Only
Approx Wt. 72.8 lbs.



General Purpose Mechanic's Set

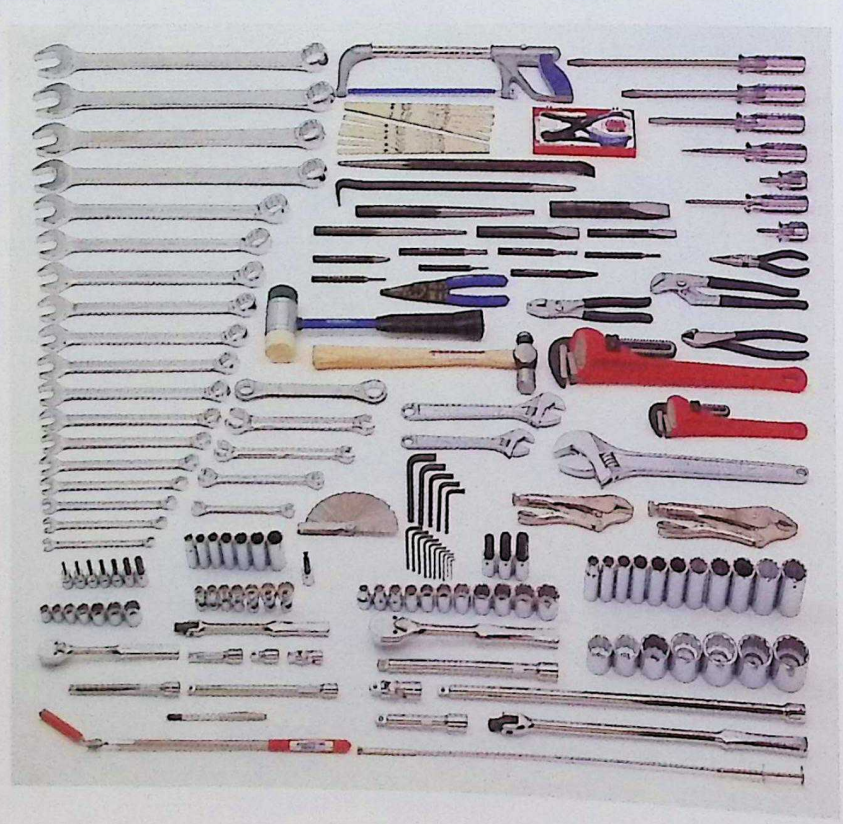
Product Number 16-035
3/8" and 1/2" Drive
150 Tools in Steel Chest 16-722
Approx Wt. 108.6 lbs.

Contains:

- 55 Sockets
- 12 Drive Tools and Accessories
- 35 Wrenches
- 6 Pliers
- 24 Screw and Nut Turning Tools
- 13 Striking and Struck Tools
- 5 Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 16-036
3/8" and 1/2" Drive
150 Tools Only
Approx Wt. 46.6 lbs.



Railroad Mechanic's Set

Product Number 16-045
3/8" and 1/2" Drive
156 Tools in Steel Case 16-651, with Tote Tray 16-653
Approx Wt. 98.8 lbs.

Contains:

- 61 Sockets
- 13 Drive Tools and Accessories
- 28 Wrenches
- 8 Pliers
- 23 Screw and Nut Turning Tools
- 18 Striking and Struck Tools
- 5 Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 16-046
3/8" and 1/2" Drive
156 Tools Only
Approx Wt. 80.6 lbs.

Always wear eye protection

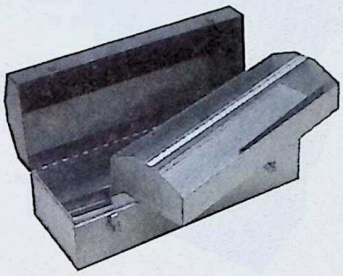
Mechanic's Starter Set

Product Number 16-053
1/2" Drive
85 Tools in Steel Case 16-651, with Tote Tray 16-653
Approx Wt. 63.5 lbs.

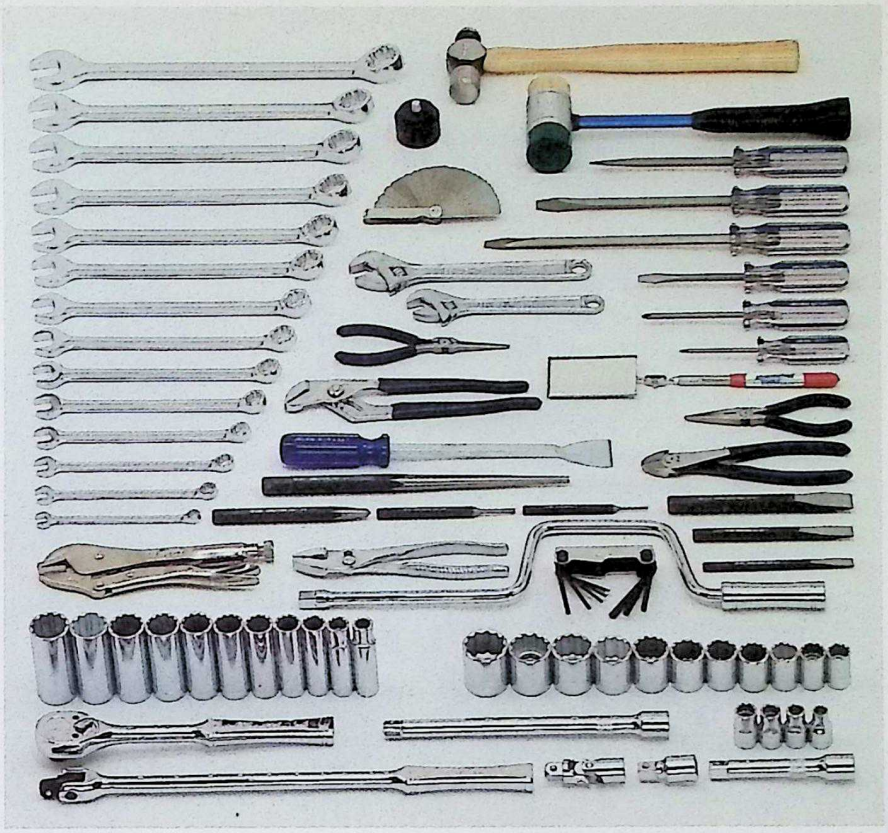
Contains:

- 26 Sockets
- 7 Drive Tools and Accessories
- 16 Wrenches
- 6 Pliers
- 15 Screw and Nut Turning Tools
- 12 Striking and Struck Tools
- 3 Miscellaneous Tools

Complete set contents listed in Appendix C.



Product Number 16-054
1/2" Drive
85 Tools Only
Approx Wt. 45.4 lbs.



NEW!

Metric Mechanic's Starter Set

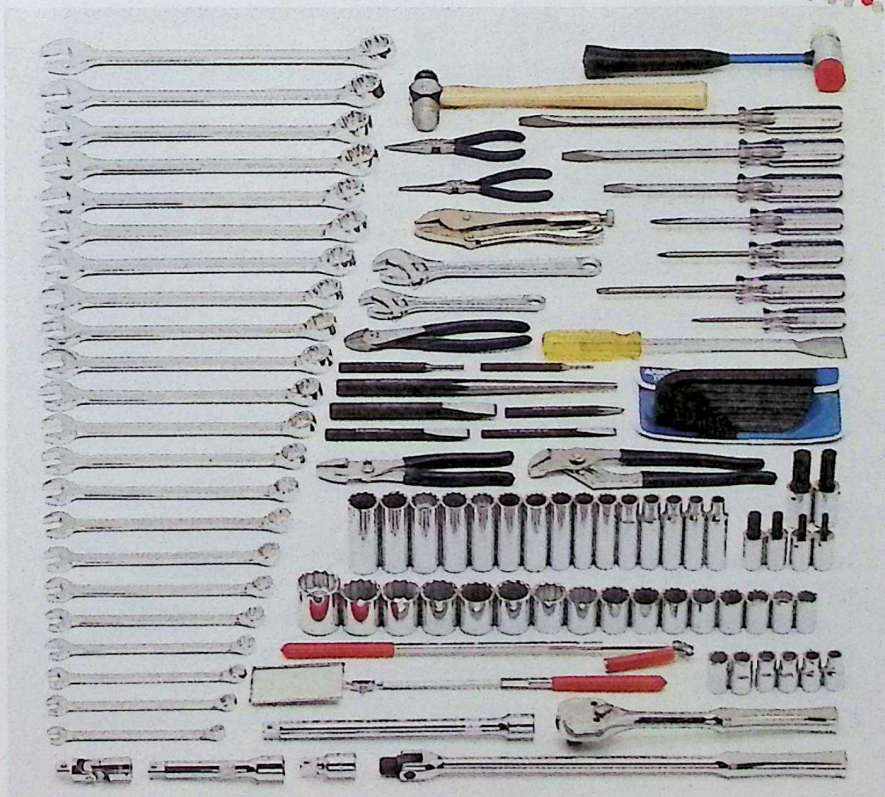
Product Number 43-053
1/2" Drive
109 Tools in Steel Chest 16-722
Approx Wt. 111.9 lbs. (50.7 KG)

Contains:

- 43 Sockets
- 6 Drive Tools and Accessories
- 24 Wrenches
- 6 Pliers
- 16 Screw and Nut Turning Tools
- 11 Striking and Struck Tools
- 3 Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 43-054
1/2" Drive
109 Tools Only
Approx Wt 49.9 lbs. (22.6 KG)



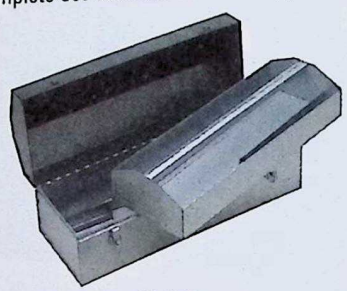
Apprentice Tool Set

Product Number 16-055
3/8" Drive
74 Tools in Steel Case 16-651, with Tote Tray 16-653
Approx Wt. 38.0 lbs.

Contains:

- 20 Sockets
- 7 Drive Tools and Accessories
- 13 Wrenches
- 6 Pliers
- 14 Screw and Nut Turning Tools
- 11 Striking and Struck Tools
- 3 Miscellaneous Tools

Complete set contents listed in Appendix C.



Product Number 16-056
3/8" Drive
74 Tools Only
Approx Wt. 19.9 lbs.

Metric Apprentice Tool Set

Product Number 43-055
3/8" Drive
92 Tools in Steel Case 16-651, with Tote Tray 16-653
Approx Wt. 39.4 lbs. (17.9 KG)

Contains:

- 35 Sockets
- 6 Drive Tools and Accessories
- 19 Wrenches
- 6 Pliers
- 13 Screw and Nut Turning Tools
- 10 Striking and Struck Tools
- 3 Miscellaneous Tools

Complete set contents listed in Appendix C.

Product Number 43-056
3/8" Drive
92 Tools Only
Approx Wt. 21.3 lbs. (9.7 KG)

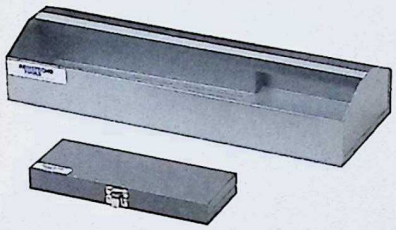
Basic Metric Add-On Set

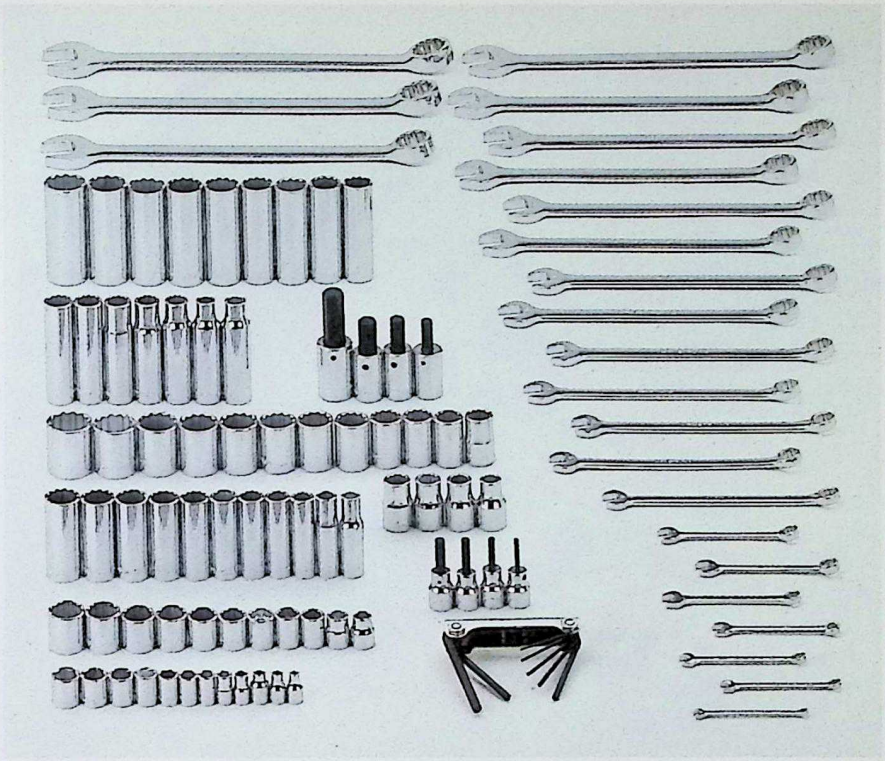
Product Number 43-070
1/4", 3/8" and 1/2" Drive
104 Tools in Tote Tray 16-653 and Steel Case 16-649
Approx Wt. 26.95 lbs. (12.21 KG)

Contains:

- 74 Sockets
- 23 Wrenches
- 7 Screw and Nut Turning Tools

Complete set contents listed in Appendix C.





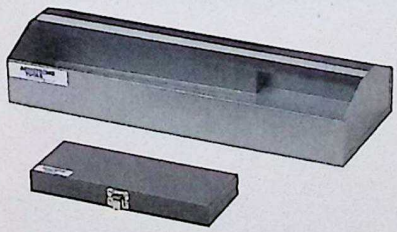
Intermediate Metric Add-On Set

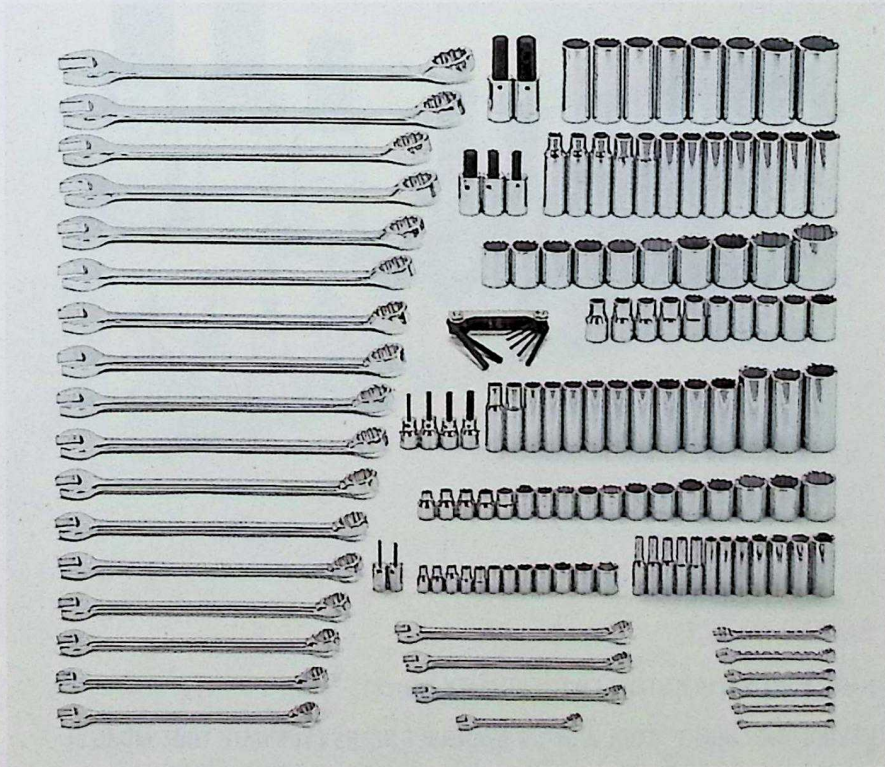
Product Number 43-075
1/4", 3/8" and 1/2" Drive
140 Tools in Tote Tray 16-653 and Steel Case 16-649
Approx Wt. 40.90 lbs. (18.53 KG)

Contains:

- 106 Sockets
- 27 Wrenches
- 7 Screw and Nut Turning Tools

Complete set contents listed in Appendix C.





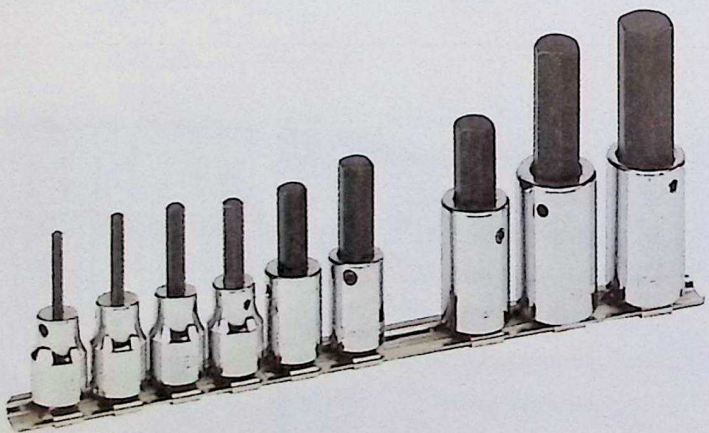
Light Duty Nut Turning Set

Product Number 16-065
1/4" & 3/8" Drive
20 Tools in Steel Case 16-649
Approx Wt. 4.1 lbs.

Contains:

14 Sockets
6 Drive Tools and Accessories

Complete set contents listed in Appendix C.



Metric Basic Hex Driver Socket Set

Product Number 43-083
3/8" & 1/2" Drive
9 Tools in cardboard box.
Includes Socket Bar 16-831,
(6) Socket Clips 16-843 and
(3) Socket Clips 16-845.
Approx Wt. 2.16 lbs. (.98 KG)

Contains:

9 Sockets

Complete set contents listed in Appendix C.

SAFETY NOTICE

HAND TOOL SAFETY STARTS WITH QUALITY TOOLS!

HAVING THE "RIGHT" TOOL ALWAYS AVAILABLE HELPS ELIMINATE TOOL MISUSE!

A CONSTANT TOOL MAINTENANCE AND REPLACEMENT PROGRAM HELPS AVOID THE USE OF UNSAFE TOOLS.

Always wear eye protection when

Master Hex Driver Socket Set

Product Number 16-080
1/4", 3/8" & 1/2" Drive
23 Tools in Steel Case 16-621
Approx Wt. 11.1 lbs.

Contains:

15 Sockets
8 Drive Tools and Accessories

Complete set contents listed in Appendix C.

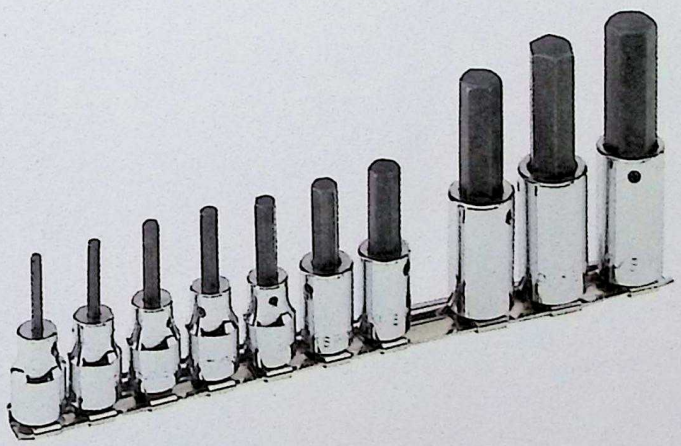
Basic Hex Driver Socket Set

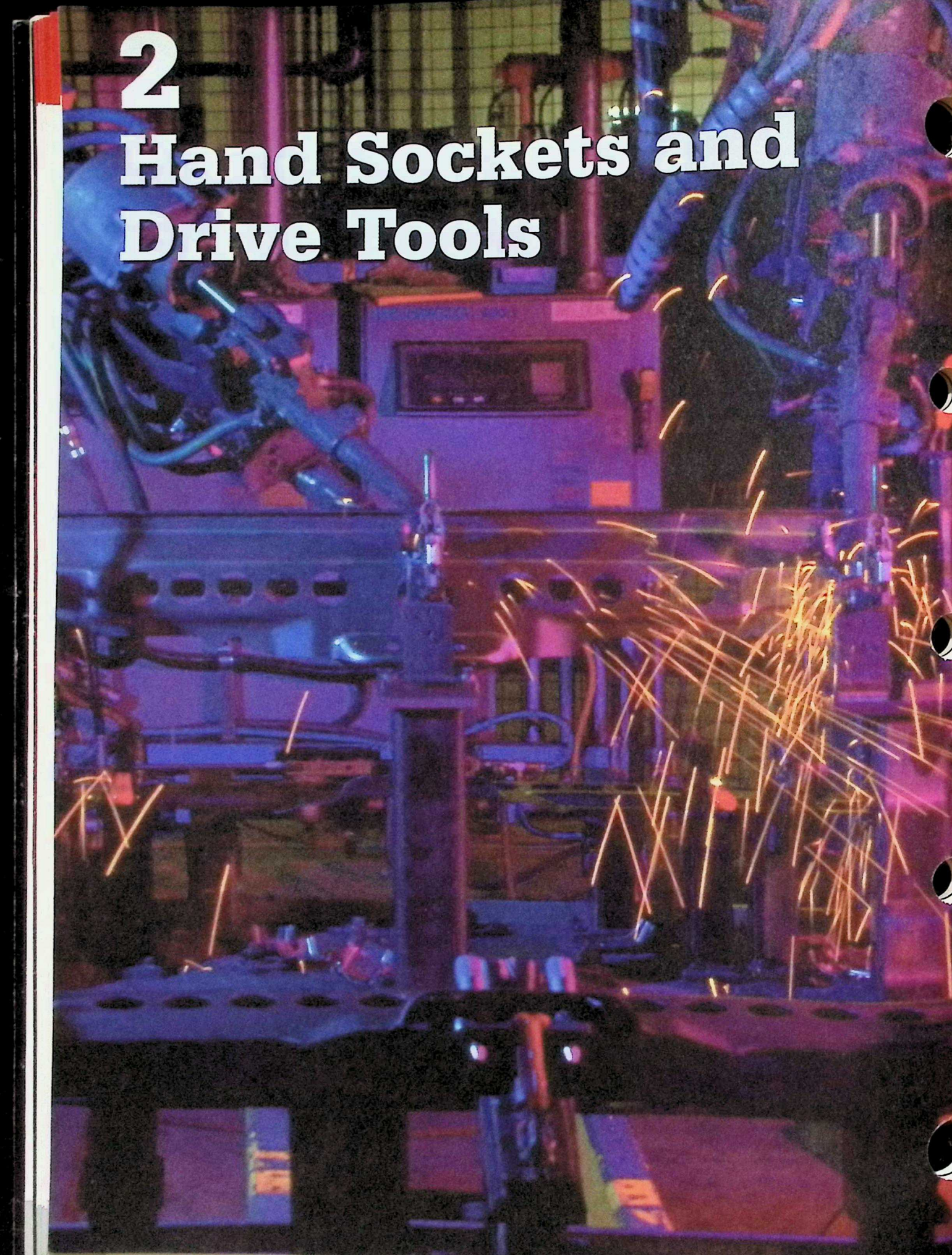
Product Number 16-083
3/8" & 1/2" Drive
10 Tools in cardboard box.
Includes Socket Bar 16-831,
(7) Socket Clips 16-843 and
(3) Socket Clips 16-845.
Approx Wt. 2.1 lbs.

Contains:

10 Sockets

Complete set contents listed in Appendix C.



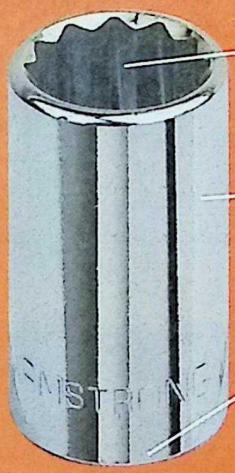


2 Hand Sockets and Drive Tools

Hand Sockets and Drive Tools

CHROME SOCKETS

Armstrong's high quality, mirror-like chrome finish sockets are available in 1/4" to 1" drive sizes and feature lobular drive openings ranging from 1/8" to 3-1/2" and 4mm to 60mm.

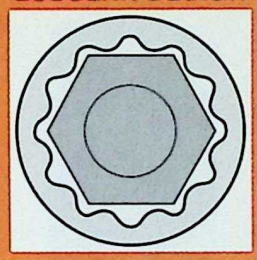


DEEP OPENINGS ARE CHAMFERED TO SLIP OVER FASTENER EASILY, SEAT SQUARELY AND HOLD SECURELY.

PRECISION COLD FORMED OF SPECIAL STEEL AND HARDENED FOR EXTRA STRENGTH. THIS PERMITS A THIN WALL DESIGN FOR EASILY FITTING INTO THE TIGHTEST SPOTS.

DRIVE END IS CHAMFERED AND NOTCHED ON ALL FOUR SIDES SO THE DRIVE TANG SLIPS ON SMOOTHLY AND LOCKS IN ANY POSITION.

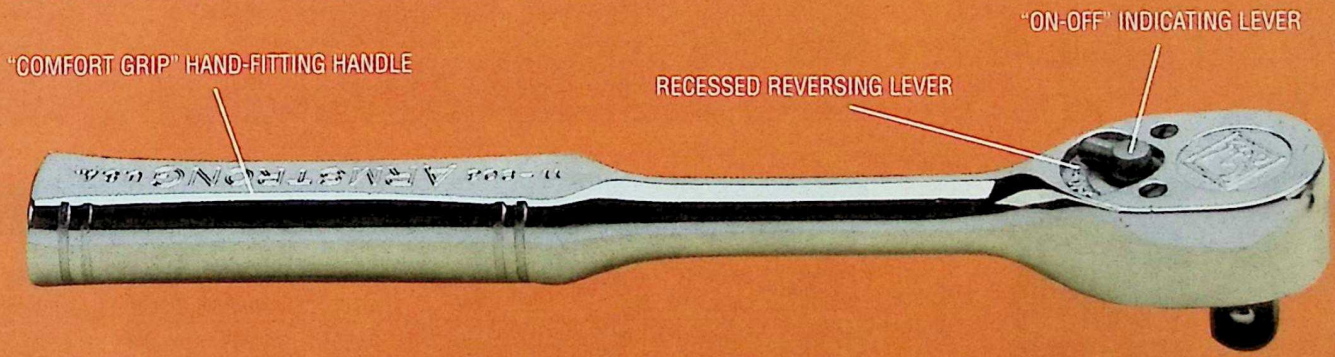
LOBULAR DESIGN



THE "LOBULAR" DESIGNED OPENING EXERTS FORCE ON FLATS OF FASTENER—PREVENTS ROUNDING OF FASTENER'S CORNERS—REMOVES EVEN WORN FASTENERS.

RATCHETS

Armstrong offers a complete range of ratchet styles to fit the high demands of any professional application. From our PEAR HEAD and ROUND HEAD designs to the SPUD and LINEMAN'S ratchets, each is made with the highest grade materials and precision workmanship—and guaranteed to last.



And, we are constantly working to make the best even better!

- **NEW!** Improved, re-designed internal components for greater torque strength and longer life cycle performance.
- **NEW!** Larger screw diameters with hex drive head design for more thread engagement and increased tightening torque.
- **NEW!** Large cover plate without hole for pawl increases contact surface and resists penetration of foreign particles.
- **NEW!** Larger diameter shift lever stem allows precise mechanical attachment to the special pawl, and is stronger and easier to flip.

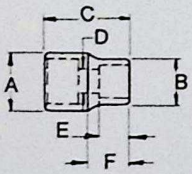
ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS

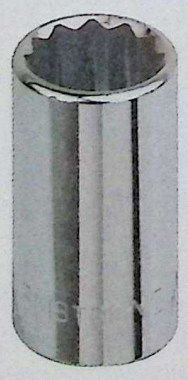
Standard Length 6-Point Lobular Opening Sockets

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
10-004	1/8	.02	0.500	0.234	0.820	0.094	0.156	0.380
10-005	5/32	.02	0.450	0.270	0.820	0.093	0.180	0.380
10-006	3/16	.02	0.450	0.310	0.820	0.125	0.200	0.380
10-007	7/32	.03	0.450	0.345	0.820	0.125	0.210	0.380
10-008	1/4	.03	0.450	0.390	0.820	0.141	0.250	0.380
10-009	9/32	.03	0.450	0.425	0.820	0.172	0.250	0.380
10-010	5/16	.03	0.465	0.465	0.820	0.172	0.305	
10-011	11/32	.03	0.500	0.500	0.820	0.203	0.315	
10-012	3/8	.03	0.550	0.550	0.820		0.500	
10-014	7/16	.04	0.615	0.615	0.820		0.500	
10-016	1/2	.05	0.680	0.680	0.820		0.500	
10-018	9/16	.09	0.780	0.780	0.820		0.500	

Standard Length 6-Point Lobular Opening Sockets METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
37-004	4	9	11.4	6.9	21.3	2.4	4.6	11.2
37-081	4.5	9	12.7	7.9	21.3	3.6	4.0	11.2
37-005	5	14	11.4	7.9	21.3	3.2	4.6	11.2
37-083	5.5	14	12.7	8.3	21.3	4.0	4.0	11.2
37-006	6	14	11.4	9.3	21.3	3.6	6.1	11.2
37-007	7	14	11.4	10.8	21.3	4.3	6.4	11.2
37-008	8	14	11.8	11.8	21.3	5.3	7.7	
37-009	9	14	12.7	12.7	21.3	5.3	7.7	
37-010	10	18	13.8	13.8	21.3	6.1	12.7	
37-011	11	18	15.6	15.6	21.3	6.1	12.7	
37-012	12	23	17.3	17.3	21.3	8.7	12.7	
37-013	13	23	18.4	18.4	21.3	8.7	12.7	
37-014	14	36	18.8	18.8	21.3	10.7	8.7	
37-015	15	45	20.3	20.3	27.0	12.2	11.4	





Standard Length 12-Point Lobular Opening Sockets

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
10-106	3/16	.02	0.450	0.310	0.820	0.125	0.180	0.380
10-107	7/32	.02	0.450	0.350	0.820	0.125	0.200	0.380
10-108	1/4	.02	0.450	0.390	0.820	0.141	0.210	0.380
10-109	9/32	.02	0.450	0.425	0.820	0.172	0.250	0.380
10-110	5/16	.02	0.465	0.465	0.820	0.172	0.250	0.380
10-111	11/32	.02	0.500	0.500	0.820	0.203	0.305	0.380
10-112	3/8	.03	0.550	0.550	0.820		0.315	
10-114	7/16	.04	0.615	0.615	0.820		0.500	
10-116	1/2	.05	0.680	0.680	0.820		0.500	
10-118	9/16	.08	0.780	0.780	0.820		0.500	

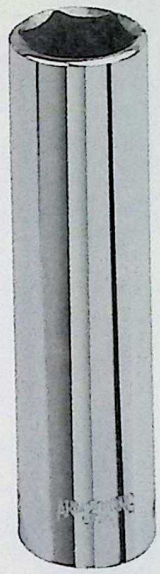
SAFETY NOTICE

METRIC AND FRACTIONAL SOCKET OPENINGS ARE NOT INTERCHANGEABLE. PLEASE SELECT THE APPROPRIATE OPENING SIZE FOR THE JOB AT HAND.

Always wear eye protection

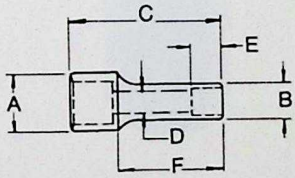
Extra Deep 6-Point Lobular Opening Sockets

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
10-204	1/8	.04	0.500	0.234	1.940	0.094	0.156	0.870
10-205	5/32	.04	0.500	0.265	1.940	0.109	0.188	0.870
10-206	3/16	.04	0.450	0.310	1.940	0.125	0.230	0.870
10-207	7/32	.04	0.450	0.350	1.940	0.125	0.230	0.870
10-208	1/4	.04	0.450	0.395	1.940	0.141	0.230	0.870
10-209	9/32	.05	0.450	0.425	1.940	0.172	0.230	0.870
10-210	5/16	.05	0.450	0.450	1.940	0.172	0.725	0.870
10-211	11/32	.06	0.500	0.500	1.940	0.203	0.725	
10-212	3/8	.08	0.550	0.550	1.940	0.281	0.950	
10-214	7/16	.09	0.620	0.620	1.940	0.281	0.950	
10-216	1/2	.12	0.685	0.685	1.940	0.344	0.950	
10-218	9/16	.16	0.780	0.780	1.940	0.406	0.950	



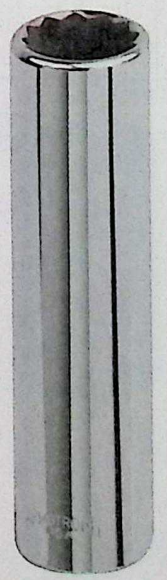
Extra Deep 6-Point Lobular Opening Sockets METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
37-204	4	18	11.4	7.0	49.3	2.4	5.8	22.1
37-281	4.5	18	14.0	7.5	49.5	3.2	4.8	22.1
37-205	5	18	11.4	7.9	49.3	3.2	5.8	22.1
37-283	5.5	18	12.7	8.3	49.5	4.0	5.6	21.1
37-206	6	18	11.4	9.4	49.3	3.6	5.8	22.1
37-207	7	23	11.4	10.8	49.3	4.3	6.0	22.1
37-208	8	23	11.4	11.4	49.3	5.3	18.4	
37-209	9	27	12.7	12.7	49.3	5.3	18.4	
37-210	10	36	14.0	14.0	49.3	6.6	25.4	
37-211	11	41	15.6	15.6	49.3	7.6	25.4	
37-212	12	54	17.4	17.4	49.3	8.3	25.4	
37-213	13	54	18.5	18.5	49.3	8.3	25.4	
37-214	14	68	19.8	19.8	49.3	10.4	25.4	
37-215	15	82	20.3	20.3	49.3	12.2	19.7	



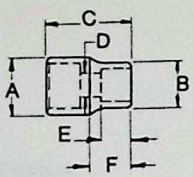
Extra Deep 12-Point Lobular Opening Sockets

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
10-306	3/16	.04	0.450	0.310	1.940	0.125	0.230	0.870
10-307	7/32	.04	0.450	0.350	1.940	0.125	0.230	0.870
10-308	1/4	.04	0.450	0.395	1.940	0.141	0.230	0.870
10-309	9/32	.05	0.450	0.435	1.940	0.172	0.230	0.870
10-310	5/16	.05	0.450	0.450	1.940	0.172	0.725	
10-311	11/32	.05	0.500	0.500	1.940	0.203	0.725	
10-312	3/8	.08	0.550	0.550	1.940	0.281	0.950	
10-314	7/16	.09	0.620	0.620	1.940	0.281	0.950	
10-316	1/2	.11	0.685	0.685	1.940	0.344	0.950	
10-318	9/16	.15	0.780	0.780	1.940	0.406	0.950	



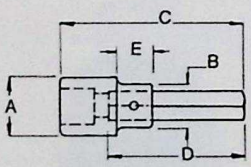
SAFETY NOTICE

NEVER USE HAND SOCKETS ON POWER OR IMPACT APPLICATIONS.



Standard Length 8 (or 4*)-Point Lobular Opening Sockets

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
10-406*	3/16	.03	0.500	0.406	0.875	0.141	0.122	0.375
10-408*	1/4	.03	0.500	0.500	0.875	0.156	0.250	
10-410	5/16	.03	0.562	0.562	0.844	0.188	0.311	
10-412	3/8	.05	0.687	0.687	0.844	0.297	0.328	



Standard Length Hex Driver Sockets*

Product Number	Bit Size Inches	Weight Lbs.	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
10-703	.050	.03	0.500	0.500	1.750	1.218	
10-704	1/16	.04	0.500	0.500	1.750	1.218	
10-705	5/64	.04	0.500	0.500	1.750	1.218	
10-706	3/32	.04	0.500	0.500	1.750	1.218	
10-707	7/64	.04	0.500	0.500	1.750	1.218	
10-708	1/8	.04	0.500	0.500	1.875	1.312	
10-709	9/64	.04	0.500	0.500	1.875	1.312	
10-710	5/32	.04	0.500	0.500	1.875	1.312	
10-711	3/16	.04	0.500	0.500	1.875	1.312	
10-712	7/32	.05	0.500	0.500	1.875	1.312	
10-713	1/4	.05	0.500	0.500	1.875	1.312	
10-714	5/16	.06	0.500	0.500	1.875	1.312	

*For replacement bits, see Appendix B.

Standard Length Hex Driver Sockets* METRIC

Product Number	Bit Size mm	Weight G	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
37-703	2	18	12.7	12.7	46.0	30.9	
37-704	2.5	18	12.7	12.7	46.0	30.9	
37-705	3	18	12.7	12.7	47.6	33.3	
37-707	4	18	12.7	12.7	47.6	33.3	
37-709	5	18	12.7	12.7	47.6	33.3	
37-711	6	23	12.7	12.7	47.6	33.3	
37-713	8	27	12.7	12.7	47.6	33.3	

*For replacement bits, see Appendix B.

Extra Long Hex Driver Sockets*

Product Number	Bit Size Inches	Weight Lbs.	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
10-743	.050	.05	0.500	0.500	3.312	2.750	
10-744	1/16	.07	0.500	0.500	3.312	2.750	
10-745	5/64	.07	0.500	0.500	3.312	2.750	
10-746	3/32	.07	0.500	0.500	3.312	2.750	
10-747	7/64	.07	0.500	0.500	3.312	2.750	
10-748	1/8	.08	0.500	0.500	3.312	2.750	
10-749	9/64	.08	0.500	0.500	4.437	3.875	
10-750	5/32	.08	0.500	0.500	4.437	3.875	
10-751	3/16	.08	0.500	0.500	4.437	3.875	
10-752	7/32	.09	0.500	0.500	4.437	3.875	
10-753	1/4	.09	0.500	0.500	4.437	3.875	
10-754	5/16	.10	0.500	0.500	4.437	3.875	
					4.500	3.937	

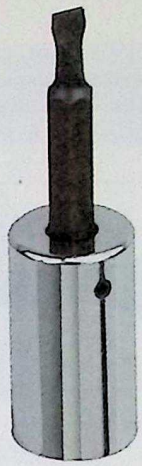
*For replacement bits, see Appendix B.

Always wear eye protecti...

Screwdriver Sockets*

Product Number	Weight Lbs.	Tip Size Inches	A Drive End	B Overall Length	C Bit Length
10-801	.05	3/16 x 1/32	0.500	2.563	1.938
10-802	.06	1/4 x 1/32	0.500	2.563	1.938

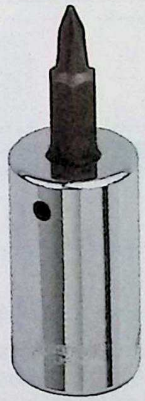
*For replacement bits, see Appendix B.



Phillips Screwdriver Sockets*

Product Number	Weight Lbs.	Tip Size Inches	A Drive End	B Overall Length	C Bit Length
10-821	.05	Phil. #1	0.500	2.000	1.375
10-822	.05	Phil. #2	0.500	2.000	1.375
10-823	.06	Phil. #3	0.500	3.125	2.563

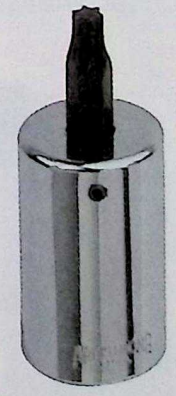
*For replacement bits, see Appendix B.

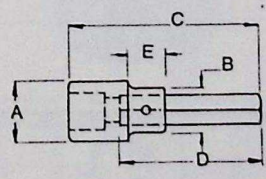


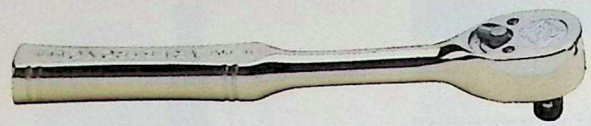
Standard Length Torx Driver Sockets*

Product Number	Torx Opening	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Torx Bit Length	E Length to Shoulder
10-868	T8	.03	0.500	0.500	1.562	1.000	
10-870	T10	.03	0.500	0.500	1.562	1.000	
10-872	T15	.04	0.500	0.500	1.562	1.000	
10-874	T20	.04	0.500	0.500	1.562	1.000	
10-876	T25	.04	0.500	0.500	1.562	1.000	
10-878	T27	.04	0.500	0.500	1.562	1.000	
10-880	T30	.05	0.500	0.500	1.562	1.000	

*For replacement bits, see Appendix B.







Ratchet

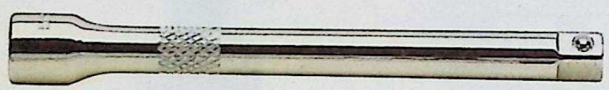
Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
10-972	.27	5-9/32	0.875	0.969

Ratchet Black Finish

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
18-972	.27	5-9/32	0.875	0.969

Hinge Handle

Product Number	Length Inches	Weight Lbs.
10-918	5-3/4	.16

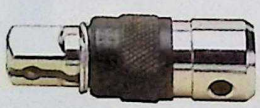


Extensions

Product Number	Length Inches	Weight Lbs.
10-921	2	.06
10-922	4	.11
10-923	6	.14
10-924	10	.23
10-925	14	.32

Flex Extension

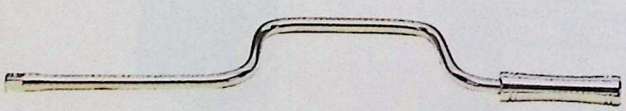
Product Number	Length Inches	Weight Lbs.
10-929	6	.09



Locking Adapter*

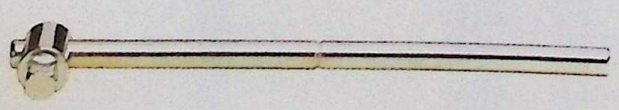
Product Number	Length Inches	Weight Lbs.
10-931	1-5/8	.05

*Permits socket to be securely locked to drive tool square.



Speeder

Product Number	Length Inches	Weight Lbs.
10-935	15-3/4	.55



T-Handle

Product Number	Length Inches	Weight Lbs.
10-938	4-1/2	.11

Always wear eye protection when near tools in use

Plastic Handle Driver

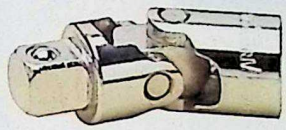
Product Number	Length Inches	Weight Lbs.
10-943	6	.13

Ratchet Spinner

Product Number	Weight Lbs.
10-945	.18

Universal Joint

Product Number	Weight Lbs.
10-947	.04



Adapter

Product Number	Description	Weight Lbs.
10-952	1/4"F, 3/8"M	.06

Hinge Handle Repair Kit

Product 10-970

Contains the following parts, with instructions, for repairing 10-918 Hinge Handle: Swivel Head Drive Square, Groove Pin, Spring Washer. In envelope. Approximate weight, .05 pounds.

Ratchet Repair Kit

Product 10-990

Contains the following parts, with illustrated instruction sheet, for repairing the 10-972 and 18-972 Ratchets: Gear, Pawl, Shifting Lever, Spring, Ball, Cover Plate, 2 Cover Plate Screws. In cardboard box. Approximate weight, .07 pounds.

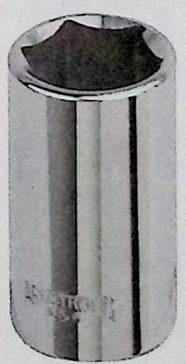
SAFETY NOTICE

Since ratchets include moving parts, periodic inspection and, if necessary, cleaning, lubrication with a light grade oil, and replacement of worn parts will become necessary. Parts should not be replaced individually, but rather in total, and complete Ratchet Repair Kits are available.

3/8" Drive

Standard Length 6-Point Lobular Opening Sockets

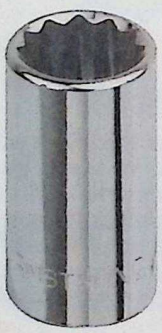
Product Number	Opening Inches	Weight Lbs	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
11-008	1/4	.04	0.660	0.460	0.872	0.141	0.200	0.372
11-010	5/16	.05	0.660	0.460	0.872	0.172	0.200	0.372
11-011	11/32	.05	0.690	0.490	0.872	0.234	0.200	0.372
11-012	3/8	.05	0.660	0.563	0.872	0.203	0.260	0.372
11-014	7/16	.05	0.660	0.660	0.872	0.281	0.293	
11-016	1/2	.07	0.730	0.730	0.900	0.281	0.310	
11-018	9/16	.08	0.784	0.784	0.900		0.490	
11-020	5/8	.10	0.866	0.866	0.972		0.562	
11-022	11/16	.12	0.956	0.956	0.972		0.562	
11-024	3/4	.14	1.010	1.010	1.097		0.670	
11-026	13/16	.20	1.083	1.083	1.097		0.680	
11-028	7/8	.28	1.173	1.173	1.200		0.790	
11-030	15/16	.28	1.255	1.255	1.505	0.672	0.990	
11-032	1	.29	1.333	1.333	1.580	0.672	1.105	



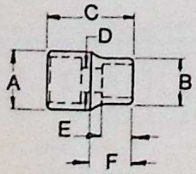
Standard Length 6-Point Lobular Opening Sockets — METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
38-006	6	18	16.8	11.7	22.1	3.6	5.2	9.4
38-007	7	18	16.8	11.8	22.1	4.3	5.2	9.4
38-008	8	23	16.8	11.8	22.1	5.3	5.2	9.4
38-009	9	23	16.8	13.1	22.1	5.3	5.3	9.4
38-010	10	23	16.8	14.9	22.1	6.6	5.8	9.4
38-011	11	23	16.8	16.8	22.1	7.6	8.4	
38-012	12	27	17.3	17.3	22.9	8.3	7.6	
38-013	13	32	18.5	18.5	22.9	8.3	7.6	
38-014	14	36	19.9	19.9	22.9		12.3	
38-015	15	41	20.8	20.8	22.9		12.3	
38-016	16	45	22.0	22.0	24.7		14.0	
38-017	17	54	23.6	23.6	24.7		14.0	
38-018	18	54	24.3	24.3	27.9		15.2	
38-019	19	59	25.7	25.7	27.9		16.6	
38-020	20	82	27.6	27.6	27.9		17.0	
38-021	21	95	28.6	28.6	30.5		18.4	
38-022	22	118	29.8	29.8	30.5		19.4	
38-023	23	131	30.2	30.2	34.9	17.1	14.3	
38-026	26	154	33.4	33.4	41.3	22.2	24.0	

Standard Length 12-Point Lobular Opening Sockets



Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
11-108	1/4	.05	0.690	0.375	0.872	0.141	0.200	0.372
11-110	5/16	.05	0.660	0.460	0.872	0.172	0.200	0.372
11-111	11/32	.05	0.690	0.490	0.872	0.264	0.185	0.372
11-112	3/8	.05	0.660	0.563	0.872	0.281	0.260	0.372
11-114	7/16	.05	0.660	0.660	0.872	0.281	0.293	
11-116	1/2	.07	0.730	0.730	0.900	0.344	0.310	
11-118	9/16	.08	0.784	0.784	0.900		0.490	
11-119	19/32	.08	0.875	0.875	0.972	0.422	0.400	
11-120	5/8	.10	0.866	0.866	0.972		0.562	
11-122	11/16	.12	0.956	0.956	0.972		0.562	
11-124	3/4	.13	1.010	1.010	1.097		0.670	
11-126	13/16	.20	1.083	1.083	1.097		0.680	
11-128	7/8	.27	1.173	1.173	1.200		0.790	
11-130	15/16	.26	1.250	1.250	1.375	0.672	0.578	
11-132	1	.27	1.314	1.314	1.375	0.672	0.625	



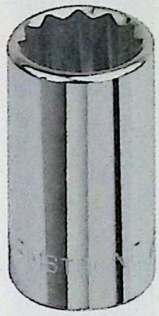
SAFETY NOTICE

METRIC AND FRACTIONAL SOCKET OPENINGS ARE NOT INTERCHANGEABLE. PLEASE SELECT THE APPROPRIATE OPENING SIZE FOR THE JOB AT HAND.

Always wear eye protection when near tools in use

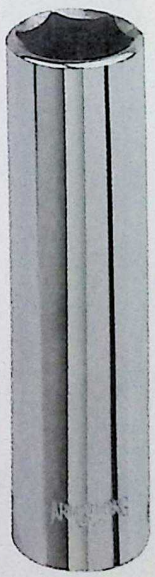
Standard Length 12-Point Lobular Opening Sockets — METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
38-106	6	18	17.5	9.5	22.1	4.0	4.4	6.9
38-107	7	18	17.5	10.6	22.1	4.8	4.4	6.9
38-108	8	23	17.5	11.5	22.1	4.8	4.4	6.9
38-109	9	23	16.8	13.1	22.1	5.3	5.3	9.4
38-110	10	23	16.8	14.9	22.1	6.6	5.8	9.4
38-111	11	23	16.8	16.8	22.1	7.6	8.4	
38-112	12	27	17.3	17.3	22.9	8.3	8.4	
38-113	13	32	18.5	18.5	22.9	8.3	8.4	
38-114	14	36	19.9	19.9	22.9		12.3	
38-115	15	41	20.8	20.8	22.9		12.3	
38-116	16	45	22.0	22.0	24.7		14.0	
38-117	17	54	23.6	23.6	24.7		14.0	
38-118	18	54	24.3	24.3	27.9		15.2	
38-119	19	59	25.7	25.7	27.9		16.6	
38-120	20	82	27.6	27.6	31.2	14.7	13.6	
38-121	21	95	28.6	28.6	30.5	15.5	18.4	
38-122	22	118	30.3	30.3	34.9	16.7	12.6	
38-123	23	131	30.2	30.2	34.9	17.1	13.1	
38-126	26	150	33.4	33.4	41.3	22.2	24.0	



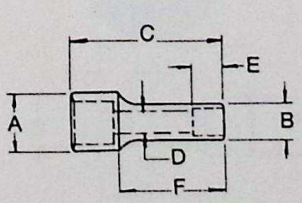
Extra Deep 6-Point Lobular Opening Sockets

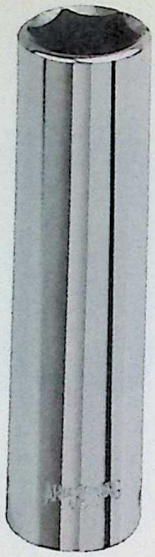
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
11-208	1/4	.07	0.688	0.375	1.953	0.156	0.219	0.820
11-210	5/16	.08	0.688	0.453	1.953	0.250	0.516	0.820
11-211	11/32	.08	0.688	0.490	1.953	0.250	0.449	0.820
11-212	3/8	.09	0.654	0.560	2.430	0.281	0.400	0.820
11-214	7/16	.11	0.654	0.654	2.430	0.281	0.750	
11-216	1/2	.10	0.728	0.728	2.430	0.344	1.250	
11-218	9/16	.16	0.778	0.778	2.430	0.328	1.450	
11-220	5/8	.20	0.864	0.864	2.430	0.375	1.450	
11-222	11/16	.22	0.954	0.954	2.430	0.375	1.450	
11-224	3/4	.28	0.954	0.954	2.430	0.437	1.450	
11-226	13/16	.30	1.080	1.080	2.460	0.453	1.680	
11-228	7/8	.37	1.180	1.180	2.460	0.500	1.850	
11-230	15/16	.46	1.250	1.250	2.875	0.672	0.854	
11-232	1	.53	1.309	1.309	2.875	0.969	0.854	



SAFETY NOTICE

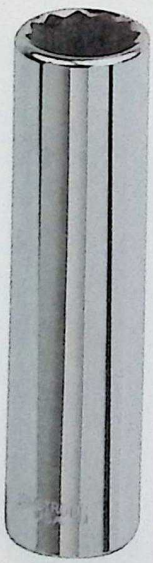
NEVER USE HAND SOCKETS ON POWER OR IMPACT APPLICATIONS.





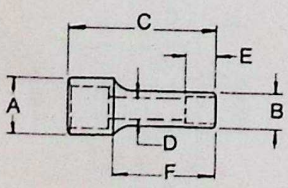
Extra Deep 6-Point Lobular Opening Sockets — METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
38-206	6	32	17.5	9.5	50.8	4.0	5.6	25.4
38-207	7	32	17.5	10.6	50.8	4.8	7.2	25.4
38-208	8	41	17.5	11.5	50.8	6.4	10.0	25.4
38-209	9	36	16.6	13.1	61.7	5.3	10.7	20.4
38-210	10	50	16.6	14.9	61.7	6.6	10.7	20.4
38-211	11	50	16.6	16.6	61.7	7.6	19.7	
38-212	12	50	17.3	17.3	61.7	8.3	19.7	
38-213	13	59	18.5	18.5	61.7	8.3	31.8	
38-214	14	73	19.8	19.8	61.7	10.4	36.8	
38-215	15	86	20.8	20.8	61.7	10.4	36.8	
38-216	16	91	22.0	22.0	61.7	11.7	36.8	
38-217	17	100	23.6	23.6	61.7	12.4	36.8	
38-218	18	118	24.3	24.3	61.7	12.4	36.8	
38-219	19	132	25.7	25.7	61.7	14.3	36.8	
38-220	20	132	27.6	27.6	71.5	14.7	34.1	
38-221	21	141	28.6	28.6	71.5	15.5	31.5	
38-222	22	159	30.3	30.3	73.0	17.1	38.2	
38-223	23	182	30.2	30.2	73.0	17.1	13.5	
38-226	26	223	33.2	33.2	77.0	22.2	23.3	



Extra Deep 12-Point Lobular Opening Sockets

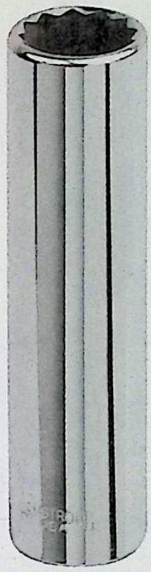
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
11-308	1/4	.07	0.688	0.375	1.953	0.219	0.219	0.820
11-310	5/16	.08	0.688	0.460	1.953	0.250	0.516	0.820
11-311	11/32	.08	0.688	0.490	1.953	0.250	0.449	0.850
11-312	3/8	.09	0.654	0.560	2.430	0.281	0.400	0.820
11-314	7/16	.10	0.654	0.654	2.430	0.281	0.750	
11-316	1/2	.13	0.728	0.728	2.430	0.344	1.250	
11-318	9/16	.16	0.778	0.778	2.430	0.328	1.450	
11-320	5/8	.19	0.864	0.864	2.430	0.375	1.450	
11-322	11/16	.23	0.954	0.954	2.430	0.375	1.450	
11-324	3/4	.27	1.006	1.006	2.430	0.437	1.450	
11-326	13/16	.31	1.080	1.080	2.460	0.453	1.680	
11-328	7/8	.43	1.180	1.180	2.460	0.500	1.850	
11-330	15/16	.47	1.250	1.250	2.875	0.672	0.891	
11-332	1	.52	1.309	1.309	2.875	0.672	0.782	



Always wear eye protection when near tools in use.

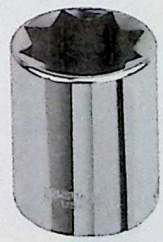
Extra Deep 12-Point Lobular Opening Sockets — METRIC

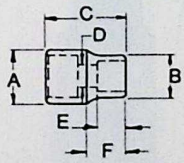
Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
38-306	6	32	17.5	9.5	50.8	4.0	5.6	25.4
38-307	7	32	17.5	10.6	50.8	4.8	7.2	25.4
38-308	8	40	17.5	11.5	50.8	6.4	10.0	25.4
38-309	9	36	16.6	13.1	61.7	5.3	10.7	20.4
38-310	10	45	16.6	14.9	61.7	6.6	10.7	20.4
38-311	11	50	16.6	16.6	61.7	7.6	19.7	
38-312	12	45	17.3	17.3	61.7	8.3	19.7	
38-313	13	54	18.5	18.5	61.7	8.3	31.8	
38-314	14	68	19.8	19.8	61.7	10.4	36.8	
38-315	15	86	20.8	20.8	61.7	10.4	36.8	
38-316	16	91	22.0	22.0	61.7	11.7	36.8	
38-317	17	95	23.6	23.6	61.7	12.4	36.8	
38-318	18	122	24.3	24.3	61.7	12.4	36.8	
38-319	19	127	25.7	25.7	61.7	14.3	36.8	
38-320	20	132	27.6	27.6	71.5	14.7	34.1	
38-321	21	136	28.6	28.6	71.5	15.5	31.5	
38-322	22	150	30.3	30.3	73.0	17.1	38.2	
38-323	23	172	30.2	30.2	73.0	17.1	13.5	
38-326	26	214	33.2	33.2	77.0	22.2	23.3	



Standard Length 8-Point Opening Sockets

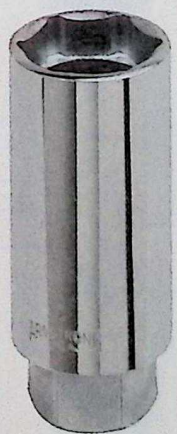
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
11-408	1/4	.05	0.688	0.562	1.000	0.156	0.250	0.487
11-409	9/32	.06	0.688	0.562	1.500	0.188	0.250	0.750
11-410	5/16	.06	0.688	0.609	1.500	0.188	0.250	0.750
11-412	3/8	.06	0.688	0.688	1.500	0.297	0.313	
11-414	7/16	.09	0.812	0.812	1.500	0.297	0.375	
11-416	1/2	.10	0.875	0.875	1.500	0.359	0.375	
11-418	9/16	.13	1.000	1.000	1.500	0.421	0.438	
11-420	5/8	.16	1.062	1.062	1.500	0.484	0.500	

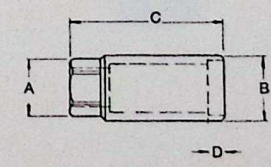


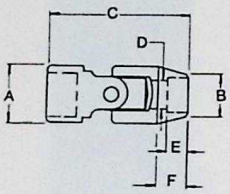


Special Spark Plug Socket with Rubber Insert

Product Number	Square Drive	Weight Lbs.	Opening Inches	A Hex Across Flats, Drive End	B Wrench End	C Overall Length	D Wrench Depth
11-501	3/8	.21	5/8	0.750	0.875	2.500	0.281
11-504	3/8	.24	13/16	0.750	1.062	2.500	0.281

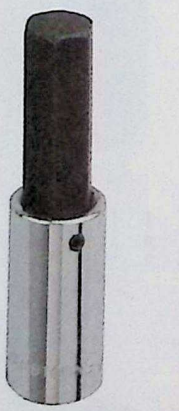


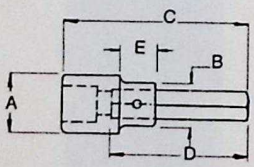




12-Point Lobular Opening Flex Socket

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
11-512	3/8	.07	0.687	0.530	1.407	0.281	0.250	0.187
11-514	7/16	.09	0.687	0.625	1.344	0.281	0.281	0.375
11-516	1/2	.10	0.687	0.687	1.439	0.343	0.312	0.406
11-518	9/16	.11	0.687	0.750	1.470	0.406	0.312	0.437
11-520	5/8	.12	0.687	0.875	1.703	0.469	0.380	0.484
11-522	11/16	.13	0.687	0.937	1.797	0.406	0.375	0.562
11-524	3/4	.14	0.687	0.985	1.828	0.531	0.406	0.693





Standard Length Hex Driver Sockets*

Product Number	Bit Size Inches	Weight Lbs.	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
11-708	1/8	.05	0.687	0.500	2.062	1.312	0.500
11-709	9/64	.05	0.687	0.500	2.062	1.312	0.500
11-710	5/32	.06	0.687	0.500	2.125	1.312	0.500
11-711	3/16	.07	0.687	0.500	2.125	1.312	0.500
11-712	7/32	.07	0.687	0.500	2.125	1.312	0.500
11-713	1/4	.08	0.687	0.500	2.125	1.312	0.500
11-714	5/16	.10	0.687	0.500	2.125	1.375	0.500
11-715	3/8	.13	0.687	0.687	2.250	1.562	

*For replacement bits, see Appendix B.

Standard Length Hex Driver Sockets* METRIC

Product Number	Bit Size mm	Weight G	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
38-705	3	23	17.5	13.1	52.4	33.3	12.7
38-707	4	27	17.5	13.1	52.4	33.3	12.7
38-709	5	32	17.5	13.1	52.4	33.3	12.7
38-711	6	36	17.5	13.1	54.0	33.3	12.7
38-712	7	41	17.5	13.1	54.0	33.3	12.7
38-713	8	45	17.5	15.9	54.0	33.3	12.7
38-714	9	54	17.5	17.5	57.2	39.7	
38-715	10	59	17.5	17.5	57.2	39.7	

*For replacement bits, see Appendix B.

Always wear eye protection when near tools in use.

Extra Long Hex Driver Sockets*

Product Number	Bit Size Inches	Weight Lbs.	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
11-748	1/8	.09	0.687	0.500	4.625	3.875	0.500
11-750	5/32	.09	0.687	0.500	4.625	3.875	0.500
11-751	3/16	.10	0.687	0.500	4.625	3.875	0.500
11-752	7/32	.12	0.687	0.500	4.625	3.875	0.500
11-753	1/4	.13	0.687	0.500	4.625	3.875	0.500
11-754	5/16	.17	0.687	0.500	4.625	3.937	0.500
11-755	3/8	.20	0.687	0.687	5.812	5.062	

*For replacement bits, see Appendix B.

Extra Long Hex Driver Sockets* METRIC

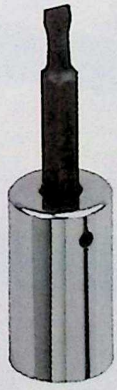
Product Number	Bit Size mm	Weight G	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
38-747	4	41	17.5	13.1	117.5	98.4	12.7
38-749	5	45	17.5	13.1	117.5	98.4	12.7
38-751	6	59	17.5	13.1	117.5	98.4	12.7
38-752	7	68	17.5	13.1	117.5	98.4	12.7
38-753	8	77	17.5	15.9	118.8	100.0	12.7
38-754	9	82	17.5	17.5	145.2	130.2	
38-755	10	91	17.5	17.5	147.6	128.6	

*For replacement bits, see Appendix B.

Screwdriver Sockets*

Product Number	Weight Lbs.	Tip Size Inches	A Drive End	B Overall Length	C Bit Length
11-802	.11	1/4 x 1/32	0.688	2.688	1.938
11-803	.11	5/16 x 3/64	0.688	2.688	1.938
11-805	.11	3/8 x 1/16	0.688	2.688	1.938

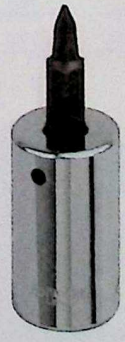
*For replacement bits, see Appendix B.

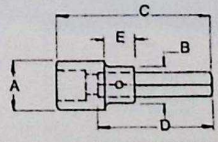


Phillips Screwdriver Sockets*

Product Number	Weight Lbs.	Tip Size Inches	A Drive End	B Overall Length	C Bit Length
11-821	.10	Phil. #1	0.688	2.063	1.375
11-822	.10	Phil. #2	0.688	2.125	1.375
11-825	.10	Phil. #3	0.688	2.125	1.375
11-828	.10	Phil. #4	0.688	2.063	1.375

*For replacement bits, see Appendix B.





NEW!

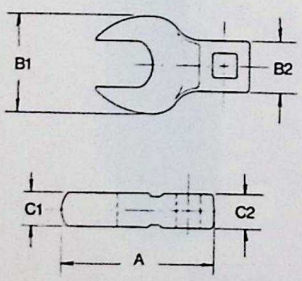
Flare Nut Crowfoot Wrenches

Product Number	Opening Inches	Weight Lbs.	A Head Diameter	B Head Thickness	C Slot Width	D Length of Centers
11-842	5/8	0.06	0.938	0.688	0.469	0.734
11-843	11/16	0.06	1.031	0.688	0.531	0.781
11-844	3/4	0.06	1.125	0.719	0.563	0.828
11-845	13/16	0.06	1.203	0.719	0.625	0.875
11-846	7/8	0.06	1.297	0.750	0.688	0.938
11-847	15/16	0.06	1.375	0.750	0.719	0.938
11-848	1	0.13	1.453	0.781	0.750	1.016
11-849	1-1/16	0.13	1.531	0.781	0.781	1.047

Open End Crowfoot Wrenches

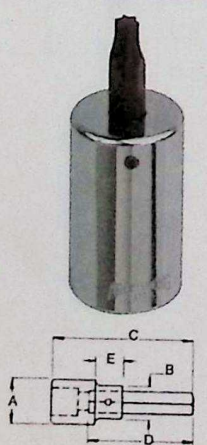
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Handle Width	C1 Head Thickness	C2 Handle Thickness
11-850	3/8	.12	1.270	0.750	0.630	0.220	0.440
11-851	7/16	.14	1.280	0.880	0.630	0.220	0.440
11-852	1/2	.14	1.380	0.930	0.630	0.270	0.440
11-853	9/16	.12	1.490	1.130	0.630	0.270	0.440
11-854	5/8	.13	1.600	1.200	0.630	0.350	0.440
11-855	11/16	.18	1.710	1.330	0.630	0.350	0.440
11-856	3/4	.18	1.820	1.500	0.630	0.350	0.440
11-857	13/16	.21	1.930	1.560	0.630	0.350	0.440
11-858	7/8	.22	2.040	1.690	0.630	0.370	0.440
11-859	15/16	.22	1.985	1.860	0.630	0.360	0.440
11-860	1	.22	2.260	2.030	0.630	0.370	0.440

NEW!



Open End Crowfoot Wrenches — METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Head Width	B2 Handle Width	C1 Head Thickness	C2 Handle Thickness
38-850	10	27	30.5	20.6	16.0	5.6	11.2
38-851	11	27	32.5	22.4	16.0	5.6	11.2
38-852	12	27	34.0	23.9	16.0	6.4	11.2
38-853	13	41	35.1	23.6	16.0	6.6	11.2
38-854	14	41	37.8	28.4	16.0	6.6	11.2
38-855	15	41	39.4	29.5	16.0	7.9	11.2
38-856	16	41	40.6	30.5	16.0	8.9	11.2
38-857	17	59	43.4	33.8	16.0	8.9	11.2
38-858	18	59	44.7	35.3	16.0	8.9	11.2
38-859	19	73	46.2	38.1	16.0	8.9	11.2
38-861	21	73	52.1	40.9	16.0	9.1	11.2
38-862	22	86	51.8	42.9	16.0	9.4	11.2



Standard Length Torx Driver Sockets*

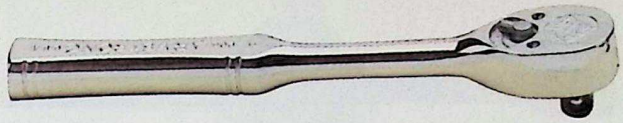
Product Number	Torx Opening	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Torx Bit Length	E Length to Shoulder
11-870	T10	.06	0.687	0.516	1.687	1.000	0.500
11-872	T15	.07	0.687	0.516	1.687	1.000	0.500
11-874	T20	.08	0.687	0.516	1.687	1.000	0.500
11-876	T25	.08	0.687	0.516	1.687	1.000	0.500
11-878	T27	.08	0.687	0.516	1.687	1.000	0.500
11-880	T30	.09	0.687	0.516	1.687	1.000	0.500
11-882	T40	.10	0.687	0.516	1.687	1.000	0.500
11-884	T45	.10	0.687	0.625	1.937	1.000	0.500
11-886	T50	.11	0.687	0.625	1.937	1.250	0.500
11-888	T55	.12	0.734	0.734	2.187	1.250	0.500

*For replacement bits, see Appendix B.

Always wear eye protection when

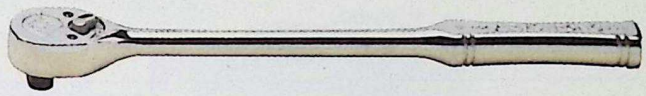
Ratchet

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
11-972	.71	7-3/8	1.156	0.656



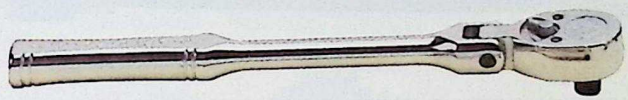
Long Handle Ratchet

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
11-973	.96	10-1/2	1.156	0.656



Flex Head Ratchet

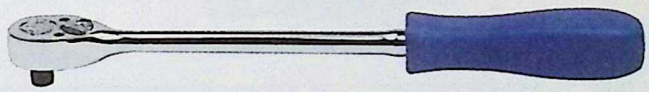
Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
11-974	.89	9-1/2	1.156	0.656



Plastic Handle Ratchet

NEW!

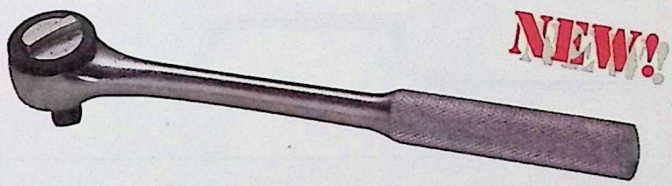
Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
11-908	.71	8-3/8	1.156	0.656
11-909	.96	11-1/2	1.156	0.656



Round Head Ratchet

NEW!

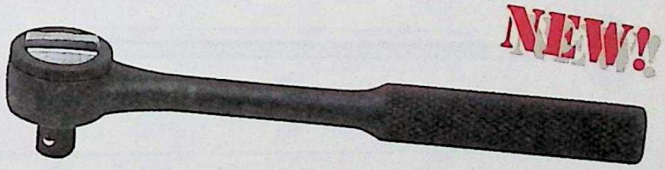
Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
11-913	.78	7-5/8	1.250	0.625



Round Head Ratchet, Black Finish

NEW!

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
19-913	.78	7-5/8	1.250	0.625

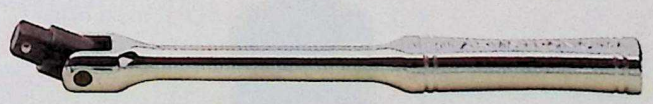


Ratchet, Black Finish

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
19-972	.69	7-3/8	1.156	0.656

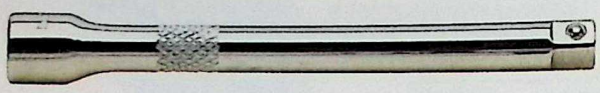
Hinge Handle

Product Number	Weight Lbs.	Overall Length
11-918	.51	8-1/2



Hinge Handle, Black Finish

Product Number	Weight Lbs.	Overall Length
19-918	.49	8-1/2

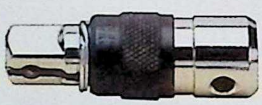


Extensions

Product Number	Weight Lbs.	Overall Length
11-921	.08	1-1/2
11-922	.13	3
11-923	.21	6
11-925	.27	8
11-927	.40	12
11-928	.64	20

Flex Extension

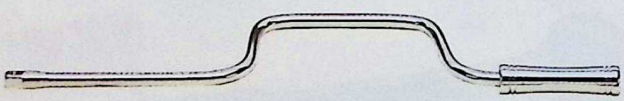
Product Number	Weight Lbs.	Overall Length
11-929	.23	7-1/4



Locking Adapter*

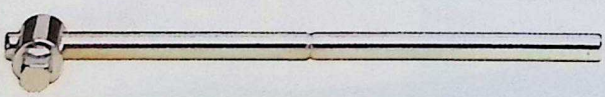
Product Number	Weight Lbs.	Overall Length
11-931	.12	2-1/8

*Permits socket to be securely locked to the drive tool square.



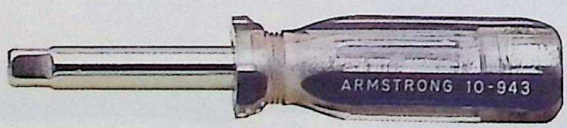
Speeder

Product Number	Weight Lbs.	Overall Length
11-935	.99	16-1/2



T-Handle

Product Number	Weight Lbs.	Overall Length
11-938	.32	8



Plastic Handle Driver

Product Number	Weight Lbs.	Overall Length
11-943	.28	6

Ratchet Adapter*

Product Number	Weight Lbs.
11-944	.24

*Made in Taiwan.

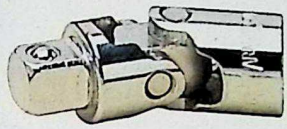
Always wear eye protection when near tools in use

Ratchet Spinner

Product Number	Weight Lbs.
11-945	.27

Universal Joint

Product Number	Weight Lbs.
11-947	.13

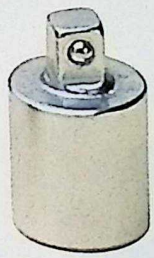


Drive Adapters

Product Number	Weight Lbs.	Description
11-951	.06	3/8"F, 1/4"M
11-952	.13	3/8"F, 1/2"M

CAUTION:

Adapting down to a smaller drive size may result in excessive torque application, causing failure of fastener, socket or adapter.



Ratchet Repair Kit

Product 11-965

Contains the following parts, with instructions, for repairing the 11-908 or 11-909 Ratchets: Gear, Wear Ring, Pawl, Shifting Lever, Spring, Ball, Cover Plate, 2 Cover Plate Screws. In cardboard box. Approximate weight .13 pounds.

Ratchet Repair Kit

Product 11-969

Contains the following parts, with instructions, for repairing 11-913 and 19-913 Ratchet: Square Drive Housing Assembly, Retaining Ring. In plastic bag. Approximate weight, .10 pounds.

Hinge Handle Repair Kit

Product 11-970

Contains the following parts, with instructions, for repairing 11-918 and 19-918 Hinge Handle: Swivel Head Drive Square, Groove Pin, Spring Washer. In envelope. Approximate weight, .09 pounds.

Ratchet Repair Kit

Product 11-990

Contains the following parts, with illustrated instruction sheet, for repairing the 11-972, 11-973 or 19-972 Ratchets: Gear, Pawl, Shifting Lever, Spring, Ball, Cover Plate, 2 Cover Plate Screws. In cardboard box. Approximate weight,.13 pounds.

Ratchet Repair Kit

Product 11-991

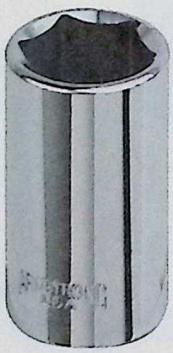
Contains the following parts, with illustrated instruction sheet, for repairing the 11-974 Flex Head Ratchet: Gear, Pawl, Shifting Lever, Spring, Ball, Cover Plate, 2 Cover Plate Screws, Groove Pin, Spring Washer. In cardboard box. Approximate weight, .16 pounds.

SAFETY NOTICE

Since ratchets include moving parts, periodic inspection and, if necessary, cleaning, lubrication with a light grade oil, and replacement of worn parts will become necessary. Parts should not be replaced individually, but rather in total, and complete Ratchet Repair Kits are available.

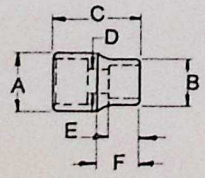
Standard Length 6-Point Lobular Opening Sockets

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
12-012	3/8	.10	0.870	0.580	1.455	0.281	0.400	0.705
12-014	7/16	.10	0.870	0.678	1.455	0.219	0.400	0.705
12-016	1/2	.12	0.870	0.748	1.455	0.266	0.400	0.705
12-018	9/16	.13	0.870	0.812	1.455	0.328	0.400	0.705
12-020	5/8	.15	0.880	0.880	1.455	0.375	0.480	
12-022	11/16	.16	0.956	0.956	1.455	0.375	0.565	
12-024	3/4	.21	1.037	1.037	1.455		0.800	
12-026	13/16	.24	1.125	1.125	1.455		0.960	
12-028	7/8	.35	1.173	1.173	1.455		0.985	
12-030	15/16	.37	1.258	1.258	1.455		0.945	
12-032	1	.42	1.336	1.336	1.580		0.950	
12-034	1-1/16	.45	1.410	1.410	1.580		1.000	
12-036	1-1/8	.52	1.490	1.490	1.640		1.000	
12-038	1-3/16	.63	1.563	1.563	1.718	1.172	0.844	
12-040	1-1/4	.87	1.650	1.650	1.715		1.170	
12-042	1-5/16	.89	1.750	1.750	2.063	0.922	0.938	
12-044	1-3/8	.94	1.813	1.813	2.125	0.922	1.000	
12-046	1-7/16	1.05	1.938	1.938	2.188	0.922	1.063	
12-048	1-1/2	1.12	2.000	2.000	2.250	1.047	1.063	



Standard Length 6-Point Lobular Opening Sockets METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
39-010	10	45	22.1	15.5	37.0	6.6	6.6	17.9
39-011	11	45	22.1	18.0	37.0	7.6	7.7	17.9
39-012	12	54	22.1	18.5	37.0	8.3	8.4	17.9
39-013	13	54	22.1	19.2	37.0	8.3	9.3	17.9
39-014	14	59	22.1	20.9	37.0	10.4	10.2	17.9
39-015	15	68	22.0	22.0	37.0	11.7	12.7	
39-016	16	73	22.2	22.2	37.0	12.3	12.7	
39-017	17	73	23.6	23.6	37.0	12.4	14.0	
39-018	18	77	25.7	25.7	37.0	12.4	11.9	
39-019	19	95	26.4	26.4	37.0	14.3	20.3	
39-020	20	100	27.8	27.8	41.3	17.5	16.2	
39-021	21	114	28.6	41.3	41.3	17.5	14.7	
39-022	22	155	30.2	30.2	42.9	17.9	19.3	
39-023	23	164	31.2	31.2	42.9	17.9	17.1	
39-024	24	168	31.8	31.8	42.9	18.6	17.5	
39-025	25	186	33.2	33.2	42.9	19.1	19.1	
39-026	26	200	34.9	34.9	43.7	19.1	17.5	
39-027	27	209	36.5	36.5	43.7	20.7	19.1	
39-028	28	232	38.1	38.1	49.2	20.7	19.1	
39-029	29	255	38.1	39.7	49.2	20.7	19.1	
39-030	30	277	38.1	38.1	49.2	20.7	19.1	
39-032	32	395	39.7	39.7	49.2	20.7	19.1	
39-036	36	426	49.0	49.0	56.0	28.0	25.4	



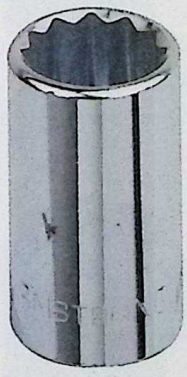
SAFETY NOTICE

METRIC AND FRACTIONAL SOCKET OPENINGS ARE NOT INTERCHANGEABLE. PLEASE SELECT THE APPROPRIATE OPENING SIZE FOR THE JOB AT HAND.

Always wear eye protection when near tools in use

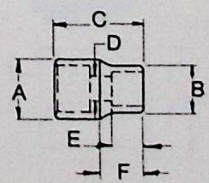
Standard Length 12-Point Lobular Opening Sockets

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
12-112	3/8	.09	0.870	0.580	1.455	0.281	0.375	0.705
12-114	7/16	.10	0.870	0.678	1.455	0.219	0.375	0.705
12-116	1/2	.11	0.870	0.748	1.455	0.266	0.375	0.705
12-118	9/16	.13	0.870	0.812	1.455	0.328	0.400	0.705
12-119	19/32	.16	0.870	0.870	1.455	0.375	0.400	
12-120	5/8	.15	0.880	0.880	1.455	0.375	0.475	
12-121	21/32	.15	0.930	0.930	1.455	0.375	0.475	
12-122	11/16	.15	0.956	0.956	1.455	0.375	0.475	
12-124	3/4	.20	1.037	1.037	1.455		0.825	
12-125	25/32	.20	1.125	1.125	1.455		0.850	
12-126	13/16	.24	1.125	1.125	1.455		0.915	
12-128	7/8	.33	1.173	1.173	1.455		0.935	
12-130	15/16	.37	1.260	1.260	1.455		0.935	
12-132	1	.41	1.336	1.336	1.580		1.000	
12-134	1-1/16	.43	1.410	1.410	1.580		1.000	
12-136	1-1/8	.50	1.490	1.490	1.640		1.000	
12-138	1-3/16	.60	1.563	1.563	1.718	1.094	0.844	
12-140	1-1/4	.83	1.650	1.650	1.715		1.150	
12-142	1-5/16	.84	1.750	1.750	2.063		0.938	
12-144	1-3/8	.90	1.937	1.937	2.125		1.000	
12-146	1-7/16	.99	1.937	1.937	2.187		1.000	
12-148	1-1/2	1.08	2.000	2.000	2.187	1.047	1.250	



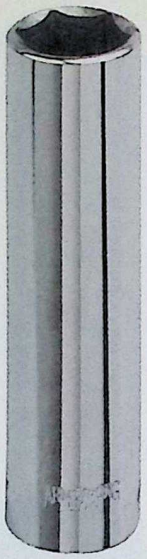
Standard Length 12-Point Lobular Opening Sockets METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
39-110	10	41	22.1	37.0	6.6	6.9	17.9	
39-111	11	45	22.1	37.0	7.6	7.7	17.9	
39-112	12	50	22.1	37.0	8.3	8.4	17.9	
39-113	13	50	22.1	37.0	8.3	9.3	17.9	
39-114	14	59	22.1	37.0	10.4	10.2	17.9	
39-115	15	73	22.0	37.0	10.4	12.7		
39-116	16	68	22.4	37.0	11.7	12.7		
39-117	17	68	23.6	37.0	12.4	14.0		
39-118	18	77	25.7	37.0	12.4	15.2		
39-119	19	91	26.4	37.0		20.3		
39-120	20	100	27.6	37.0		20.3		
39-121	21	109	28.6	37.0		20.3		
39-122	22	145	29.8	37.0		20.3		
39-123	23	154	30.9	37.0		22.2		
39-124	24	168	32.0	37.0		24.1		
39-125	25	181	33.9	37.0		24.1		
39-126	26	190	35.8	40.1		25.4		
39-127	27	204	35.8	40.1		25.4		
39-128	28	228	37.8	41.7		27.9		
39-129	29	246	37.8	41.7		25.4		
39-130	30	268	39.4	41.7		25.4		
39-132	32	381	41.8	43.7		25.4		
39-136	36	417	47.5	46.7		30.5		



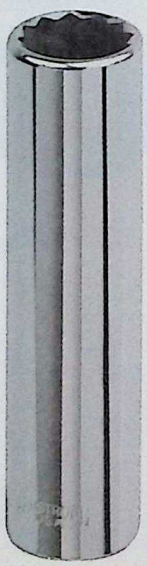
SAFETY NOTICE

NEVER USE HAND SOCKETS ON POWER OR IMPACT APPLICATIONS.



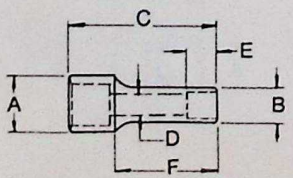
Extra Deep 6-Point Lobular Opening Sockets

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
12-212	3/8	.21	0.875	0.569	3.185	0.297	0.569	0.810
12-214	7/16	.24	0.875	0.625	3.185	0.297	0.500	0.810
12-216	1/2	.29	0.867	0.745	3.185	0.344	0.475	0.810
12-218	9/16	.29	0.867	0.810	3.185	0.406	0.475	0.810
12-220	5/8	.28	0.875	0.875	3.205	0.469	1.250	
12-222	11/16	.30	0.965	0.965	3.205	0.469	1.500	
12-224	3/4	.44	1.040	1.040	3.205	0.531	1.700	
12-226	13/16	.44	1.120	1.120	3.205	0.594	1.875	
12-228	7/8	.51	1.185	1.185	3.205	0.656	1.725	
12-230	15/16	.58	1.260	1.260	3.205	0.656	1.725	
12-232	1	.65	1.340	1.340	3.205	0.656	1.725	
12-234	1-1/16	.80	1.413	1.413	3.205	0.656	1.725	
12-236	1-1/8	.81	1.495	1.495	3.205	0.781	1.725	
12-238	1-3/16	.95	1.563	1.563	3.219	0.797	0.844	
12-240	1-1/4	1.31	1.687	1.687	3.219	0.922	0.875	
12-242	1-5/16	1.35	1.750	1.750	3.219	0.922	0.938	
12-244	1-3/8	1.42	1.812	1.812	3.219	0.922	1.000	
12-246	1-7/16	1.51	1.937	1.937	3.219	0.922	1.063	
12-248	1-1/2	1.73	2.000	2.000	3.219	1.046	1.063	



Extra Deep 12-Point Lobular Opening Sockets

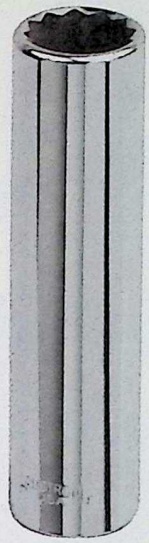
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
12-312	3/8	.21	0.875	0.569	3.185	0.297	0.500	0.810
12-314	7/16	.23	0.875	0.625	3.185	0.297	0.531	0.810
12-316	1/2	.27	0.867	0.745	3.185	0.344	0.500	0.810
12-318	9/16	.27	0.867	0.810	3.185	0.406	0.500	0.810
12-320	5/8	.25	0.875	0.875	3.205	0.469	1.250	
12-322	11/16	.29	0.965	0.965	3.205	0.469	1.500	
12-324	3/4	.42	1.040	1.040	3.205	0.531	1.585	
12-326	13/16	.41	1.120	1.120	3.205	0.594	1.585	
12-328	7/8	.50	1.185	1.185	3.205	0.656	1.585	
12-330	15/16	.55	1.260	1.260	3.205	0.656	1.585	
12-332	1	.63	1.340	1.340	3.205	0.656	1.585	
12-334	1-1/16	.76	1.413	1.413	3.205	0.656	1.585	
12-336	1-1/8	.78	1.495	1.495	3.205	0.781	1.585	
12-338	1-3/16	.93	1.563	1.563	3.235	0.797	0.844	
12-340	1-1/4	1.29	1.687	1.687	3.235	0.797	0.875	
12-342	1-5/16	1.32	1.750	1.750	3.235	0.922	0.938	
12-344	1-3/8	1.40	1.812	1.812	3.235	0.922	1.000	
12-346	1-7/16	1.53	1.937	1.937	3.235	0.922	1.063	
12-348	1-1/2	1.68	2.000	2.000	3.235	1.047	1.063	



Always wear eye protection when near tools in use

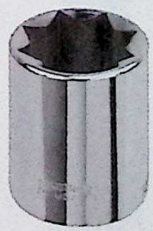
Extra Deep 12-Point Lobular Opening Sockets — METRIC

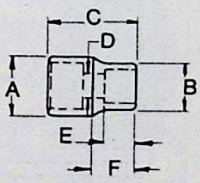
Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
39-310	10	95	22.2	14.5	8.2	7.1	8.3	21.1
39-311	11	104	22.2	15.9	81.4	8.0	9.9	21.1
39-312	12	109	22.2	17.5	81.4	8.7	9.9	21.1
39-313	13	113	22.2	18.9	81.4	8.3	12.7	21.1
39-314	14	118	22.2	20.6	81.4	10.3	12.7	21.1
39-315	15	113	22.2	22.2	81.4	10.3	12.7	
39-316	16	122	22.2	22.2	81.4	11.7	33.0	
39-317	17	127	23.9	23.9	81.4	12.4	38.1	
39-318	18	168	26.4	26.4	81.4	12.4	50.8	
39-319	19	191	26.4	26.4	81.4	14.3	44.5	
39-320	20	195	27.4	27.4	81.4	14.3	44.5	
39-321	21	195	28.7	28.7	81.4	15.1	44.5	
39-322	22	222	30.1	30.1	81.4	16.7	41.9	
39-323	23	231	30.2	30.2	81.4	17.5	15.9	
39-324	24	245	32.0	32.0	81.4	18.4	40.6	
39-325	25	272	33.2	33.2	81.4	19.1	30.7	
39-326	26	308	34.9	34.9	81.4	19.1	17.5	
39-327	27	345	35.8	35.8	81.4	20.7	40.6	
39-328	28	369	38.1	38.1	81.4	20.7	20.7	
39-329	29	432	39.7	39.7	81.4	22.6	20.7	
39-330	30	535	39.7	39.7	82.2	22.6	20.7	
39-332	32	585	42.9	42.9	82.2	25.0	22.2	



Standard Length 8-Point Lobular Opening Sockets

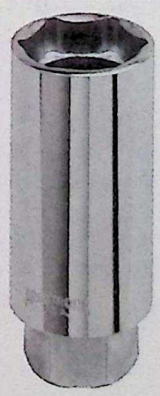
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
12-410	5/16	.14	0.875	0.637	1.330	0.187	0.375	0.580
12-412	3/8	.14	0.875	0.691	1.330	0.297	0.406	0.580
12-414	7/16	.13	0.875	0.750	1.330	0.370	0.306	0.580
12-416	1/2	.14	0.875	0.875	1.330	0.500	0.300	
12-418	9/16	.21	0.933	0.933	1.330	0.500	0.500	
12-420	5/8	.22	1.040	1.040	1.330	0.500	0.578	
12-422	11/16	.25	1.125	1.125	1.330	0.500	0.500	
12-424	3/4	.38	1.216	1.216	1.330	0.531	0.763	
12-426	13/16	.44	1.375	1.375	1.500	0.609	0.656	
12-428	7/8	.49	1.438	1.438	1.625	0.672	0.687	
12-432	1	.67	1.625	1.625	1.750	0.672	0.750	

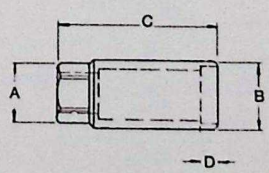


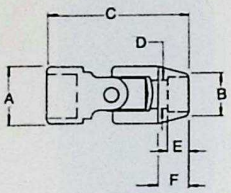


Special Spark Plug Socket with Rubber Insert

Product Number	Square Drive	Weight Lbs.	Opening Inches	A Hex Across Flats, Drive End	B Wrench End	C Overall Length	D Wrench Depth
12-504	1/2	.27	13/16	0.781	1.062	2.500	0.281

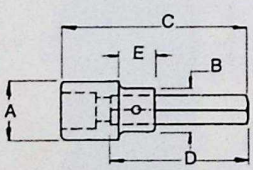






12-Point Lobular Opening Flex Socket

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
12-516	1/2	.24	0.875	0.720	1.435	0.375	0.325	0.500
12-518	9/16	.24	0.875	0.854	2.843	0.406	0.328	0.587
12-520	5/8	.25	0.875	0.880	2.718	0.469	0.343	0.563
12-522	11/16	.26	0.875	0.934	2.812	0.468	0.425	0.657
12-524	3/4	.27	0.875	1.057	2.858	0.468	0.531	0.750



Standard Length Hex Driver Sockets*

Product Number	Bit Size Inches	Weight Lbs.	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
12-713	1/4	.19	0.937	0.750	2.437	1.312	0.687
12-714	5/16	.20	0.937	0.750	2.500	1.375	0.750
12-715	3/8	.20	0.937	0.750	2.500	1.562	0.750
12-716	7/16	.27	0.937	0.750	2.500	1.562	0.750
12-717	1/2	.35	0.937	0.937	3.000	2.125	
12-718	9/16	.47	0.937	0.937	3.375	2.312	
12-719	5/8	.49	0.937	0.937	3.375	2.312	
12-721	3/4	.62	1.125	1.125	3.500	2.500	

*For replacement bits, see Appendix B.

Standard Length Hex Driver Sockets* METRIC

Product Number	Bit Size mm	Weight G	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
39-711	6	86	23.8	19.1	61.9	33.3	17.5
39-713	8	91	23.8	19.1	63.5	33.3	19.1
39-715	10	91	23.8	19.1	63.5	39.7	19.1
39-717	12	208	23.8	23.8	85.7	54.0	
39-719	14	213	25.4	25.4	85.7	56.4	
39-722	17	222	25.4	25.4	85.7	56.4	
39-724	19	279	28.6	28.6	88.9	63.5	

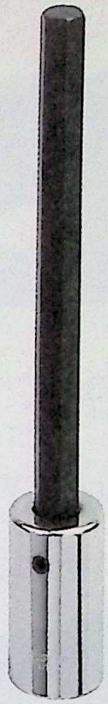
*For replacement bits, see Appendix B.

Always wear eye protection when near tools in use.

Extra Long Hex Driver Sockets *

Product Number	Bit Size Inches	Weight Lbs.	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
12-753	1/4	.27	0.937	0.750	5.000	3.875	0.687
12-754	5/16	.29	0.937	0.750	5.000	3.875	0.750
12-755	3/8	.29	0.937	0.750	5.937	5.062	0.750
12-757	1/2	.48	0.937	0.937	6.000	5.062	
12-758	9/16	.50	0.937	0.937	7.031	6.062	
12-759	5/8	.54	0.937	0.937	7.031	6.062	

*For replacement bits, see Appendix B.



Extra Long Hex Driver Sockets* METRIC

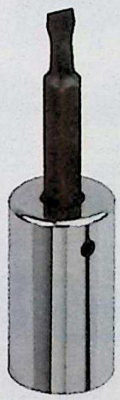
Product Number	Bit Size mm	Weight G	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
39-751	6	122	23.8	19.1	127.0	98.4	17.5
39-753	8	131	23.8	19.1	127.0	98.4	19.1
39-755	10	131	23.8	19.1	152.4	128.6	19.1
39-757	12	216	23.8	23.8	152.4	128.6	
39-759	14	227	25.4	25.4	178.6	154.0	
39-762	17	245	25.4	25.4	178.6	154.0	

*For replacement bits, see Appendix B.

Screwdriver Sockets*

Product Number	Bit Size	Weight Lbs.	A Drive End	B Overall Length	C Bit Length
12-802	1/4 x 1/32	.17	0.875	3.063	1.938
12-803	5/16 x 3/64	.16	0.875	3.063	1.938
12-805	3/8 x 1/16	.18	0.875	3.063	1.938

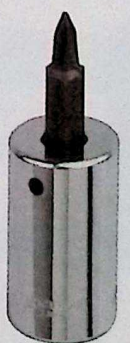
*For replacement bits, see Appendix B.

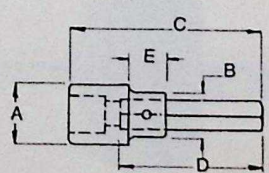


Phillips Screwdriver Sockets*

Product Number	Bit Size	Weight Lbs.	A Drive End	B Overall Length	C Bit Length
12-821	Phil #1	.15	0.875	2.375	1.375
12-822	Phil #2	.16	0.875	2.375	1.375
12-825	Phil #3	.16	0.875	2.438	1.375
12-828	Phil #4	.17	0.875	2.438	1.375

*For replacement bits, see Appendix B.





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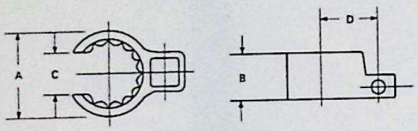
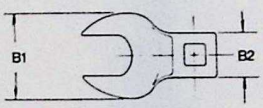
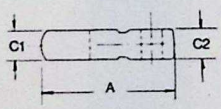


Flare Nut Crowfoot Wrenches

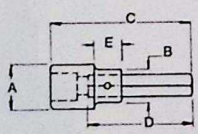
Product Number	Opening Inches	Weight Lbs.	A Head Diameter	B Head Thickness	C Slot Width	D Length of Centers
12-840	1-1/8	0.19	1.625	0.875	0.844	1.156
12-841	1-3/16	0.19	1.688	0.875	0.906	1.188
12-842	1-1/4	0.19	1.781	0.875	0.938	1.234
12-843	1-5/16	0.19	1.844	0.875	0.969	1.266
12-844	1-3/8	0.25	1.938	0.938	1.063	1.313
12-845	1-7/16	0.25	2.000	0.938	1.063	1.344
12-846	1-1/2	0.25	2.063	0.938	1.125	1.375
12-847	1-9/16	0.31	2.156	0.938	1.156	1.422
12-848	1-5/8	0.31	2.219	0.938	1.219	1.453
12-849	1-11/16	0.31	2.313	1.000	1.313	1.516
12-850	1-3/4	0.38	2.375	1.000	1.313	1.547
12-851	1-13/16	0.38	2.469	1.000	1.344	1.594
12-852	1-7/8	0.44	2.563	1.063	1.375	1.641
12-853	1-15/16	0.50	2.625	1.063	1.438	1.672
12-854	2	0.50	2.719	1.063	1.563	1.719





Open End Crowfoot Wrenches

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Handle Width	C1 Head Thickness	C2 Handle Thickness
12-859	15/16	.39	2.812	1.937	1.000	0.500	0.625
12-860	1	.38	2.812	1.937	1.000	0.500	0.625
12-861	1-1/16	.53	2.875	2.218	1.000	0.609	0.562
12-862	1-1/8	.53	2.875	2.218	1.000	0.609	0.562
12-863	1-1/4	.46	2.875	2.218	1.000	0.609	0.562
12-866	1-7/16	.70	3.406	2.718	1.000	0.609	0.562
12-867	1-1/2	.67	3.406	2.718	1.000	0.609	0.562



Standard Length Torx Driver Sockets*

Product Number	Torx Opening	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Torx Bit Length	E Length to Shoulder
12-878	T27	.16	0.875	0.750	2.125	1.000	0.687
12-880	T30	.18	0.875	0.750	2.125	1.000	0.687
12-882	T40	.20	0.875	0.750	2.312	1.250	0.687
12-884	T45	.21	0.875	0.750	2.312	1.250	0.687
12-886	T50	.23	0.875	0.750	2.312	1.250	0.687
12-888	T55	.24	0.875	0.875	2.375	1.500	
12-890	T60	.30	0.875	0.875	2.375	1.500	

*For replacement bits, see Appendix B.

Screwdriver "drag link" Sockets

Product Number	Weight Lbs.	Blade Size, Inches
12-892	.18	7/64 x 15/16
12-893	.24	3/32 x 1-1/4

Always wear eye protection when near tools in use.

Ratchet

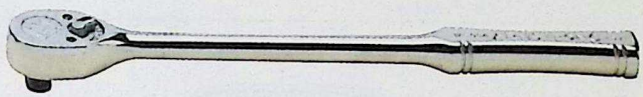
Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
12-972	1.46	10-1/2	1.625	0.875

Ratchet, Black Finish

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
20-972	1.13	10-1/2	1.625	0.875

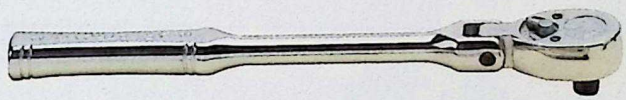
Ratchet, Long Handle

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
12-973	2.21	15	1.625	0.875



Flex Head Ratchet

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
12-974	2.02	14-1/4	1.625	0.875

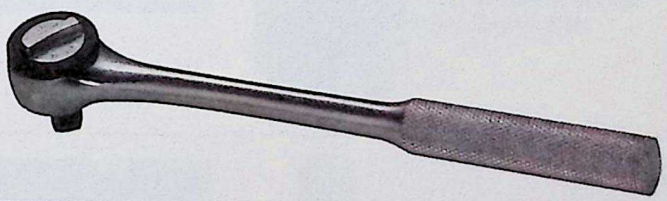


Spud Ratchet

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
12-907	1.80	14	1.625	0.875

Round Head Ratchets

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
12-913	1.25	11-1/4	1.688	0.938
12-914	1.60	15	1.688	0.938



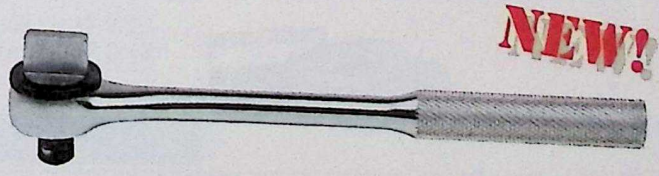
Round Head Ratchet, Black Finish

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
20-913	1.25	11-1/4	1.688	0.938

Lineman's Ratchet

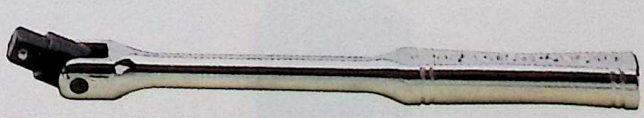
Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
12-916	1.31	11-1/4	1.688	0.938

Insulated version available on special order. Contact Customer Service.



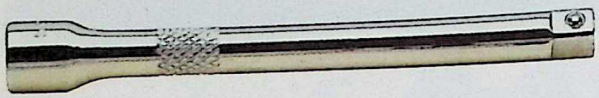
Hinge Handle

Product Number	Weight Lbs.	Overall Length
12-917	1.55	12
12-918	1.97	17



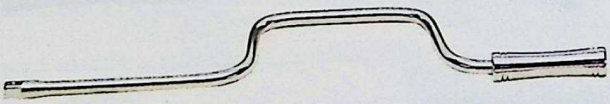
Hinge Handle, Black Finish

Product Number	Weight Lbs.	Overall Length
20-918	1.86	17



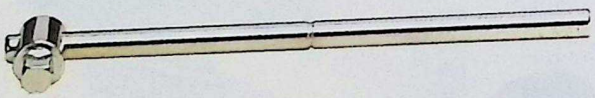
Extensions

Product Number	Weight Lbs.	Overall Length
12-921	.24	2
12-923	.38	5
12-924	.67	10
12-927	1.18	20



Speeder

Product Number	Weight Lbs.	Overall Length
12-935	2.02	19



T-Handle

Product Number	Weight Lbs.	Overall Length
12-938	.92	11

Ratchet Adapter*

Product Number	Weight Lbs.
12-944	.33

*Made in Taiwan.

Ratchet Spinner

Product Number	Weight Lbs.
12-945	.29

Universal Joint

Product Number	Weight Lbs.
12-947	.27

Stud Remover, 1/4"-3/4" Stud Dia.

Product Number	Weight Lbs.
12-948	.52

Always wear eye

Drive Adapters

Product Number	Weight Lbs.	Description
12-951	.15	1/2"F. 3/8"M
12-952	.34	1/2"F. 3/4"M

CAUTION:
Adapting down to a smaller drive size may result in excessive torque application, causing failure of fastener, socket or adapter.

Ratchet Repair Kit

Product 20-966

Contains the following parts, with instructions, for repairing 12-907 Ratchet: Gear, 2 Springs, Shifting Lever, Shifter, 2 Pawls, Face Plate, 2 Plate Screws, and 2 Lock Washers. In plastic bag. Approximate weight, .28 lbs.

Ratchet Repair Kit

Product 12-968

Contains the following parts, with instructions, for repairing 12-905 Flex Head Ratchet: Gear, Wear Ring, Pawl, Shifting Lever, Spring, Ball, Cover Plate, 2 Cover Plate Screws, Groove Pin, Spring Washer. In cardboard box. Approximate weight, .35 pounds.

Ratchet Repair Kit

Product 12-969

Contains the following parts, with instructions, for repairing 12-913, 12-914 and 20-913 Ratchets: Square Drive Housing Assembly, Retaining Ring. In plastic bag. Approximate weight, .27 pounds.

Hinge Handle Repair Kit

Product 12-970

Contains the following parts, with instructions, for repairing the 12-917, 12-918, and 20-918 Hinge Handles: Swivel Head Drive Square, Groove Pin, Spring Washer. In envelope. Approximate weight, .26 pounds.

Ratchet Repair Kit

Product 12-971

Contains the following parts, with instructions, for repairing 12-916 Ratchet: Square Drive Housing Assembly, Retaining Ring. In Plastic Bag. Approximate weight, .33 pounds

Ratchet Repair Kit

Product 12-990

Contains the following parts, with illustrated instruction sheet, for repairing the 12-972, 12-973 or 20-972 Ratchets: Gear, Pawl, Shifting Lever, Spring, Ball, Cover Plate, 2 Cover Plate Screws. In cardboard box. Approximate weight, .31 pounds.

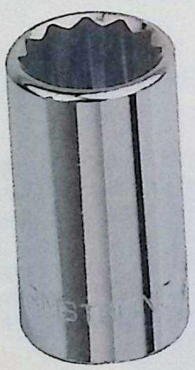
Ratchet Repair Kit

Product 12-991

Contains the following parts, with illustrated instruction sheet, for repairing the 12-974 Flex Head Ratchet: Gear, Pawl, Shifting Lever, Spring, Ball, Cover Plate, 2 Cover Plate Screws, Groove Pin, Spring Washer. In cardboard box. Approximate weight, .16 pounds.

SAFETY NOTICE

Since ratchets include moving parts, periodic inspection and, if necessary, cleaning, lubrication with a light grade oil, and replacement of worn parts will become necessary. Parts should not be replaced individually, but rather in total, and complete Ratchet Repair Kits are available.

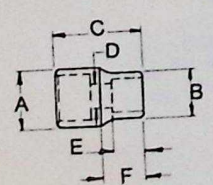


Standard Length 12-Point Lobular Opening Sockets

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
13-124	3/4	.32	1.312	1.125	1.812	0.546	0.562	0.812
13-126	13/16	.37	1.312	1.187	1.875	0.609	0.625	0.875
13-128	7/8	.38	1.312	1.312	1.937	0.671	0.656	
13-130	15/16	.43	1.375	1.375	1.937	0.671	0.656	
13-132	1	.57	1.437	1.437	2.000	0.671	0.750	
13-134	1-1/16	.63	1.500	1.500	2.062	0.671	0.750	
13-136	1-1/8	.69	1.625	1.625	2.125	0.796	0.812	
13-138	1-3/16	.75	1.687	1.687	2.125	0.796	0.812	
13-140	1-1/4	.80	1.750	1.750	2.187	0.796	0.875	
13-142	1-5/16	.84	1.812	1.812	2.250	0.921	0.875	
13-144	1-3/8	.96	1.875	1.875	2.312	0.921	0.937	
13-146	1-7/16	1.02	1.937	1.937	2.375	0.921	1.000	
13-148	1-1/2	1.07	2.000	2.000	2.437	1.046	1.000	
13-150	1-9/16	1.18	2.062	2.062	2.437	1.046	1.156	
13-152	1-5/8	1.54	2.250	2.250	2.500	1.046	1.187	
13-154	1-11/16	1.54	2.250	2.250	2.562	1.171	1.218	
13-156	1-3/4	1.56	2.312	2.312	2.625	1.171	1.250	
13-158	1-13/16	1.97	2.437	2.437	2.750	1.171	1.281	
13-160	1-7/8	2.22	2.562	2.562	2.812	1.296	1.343	
13-164	2	2.54	2.687	2.687	2.875	1.296	1.406	
13-166	2-1/16	2.69	2.750	2.750	2.937	1.421	1.437	
13-168	2-1/8	3.03	2.875	2.875	3.000	1.421	1.500	
13-170	2-3/16	3.40	3.000	3.000	3.062	1.546	1.531	
13-172	2-1/4	3.48	3.000	3.000	3.125	1.546	1.437	
13-174	2-5/16	3.44	3.125	3.125	3.312	1.546	1.500	
13-176	2-3/8	4.11	3.250	3.250	3.437	1.546	1.500	

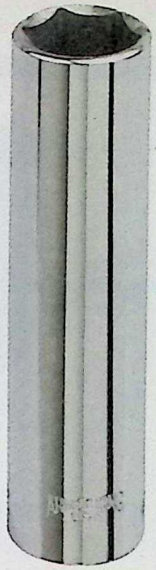
Standard Length 12-Point Lobular Opening Sockets — METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
40-119	19	145	33.3	28.6	46.0	14.7	14.3	20.7
40-120	20	154	33.3	30.1	47.7	14.7	15.9	22.2
40-121	21	163	33.3	30.1	47.7	15.4	15.9	22.2
40-122	22	172	33.3	33.3	49.1	17.0	16.7	
40-123	23	186	34.9	34.9	49.1	17.4	16.7	
40-124	24	195	34.9	34.9	49.1	18.6	16.7	
40-125	25	227	36.5	36.5	50.8	19.0	17.4	
40-126	26	254	38.1	38.1	52.4	19.0	19.0	
40-127	27	286	38.1	38.1	52.4	20.6	19.0	
40-128	28	314	39.7	39.7	54.0	22.6	20.6	
40-129	29	319	39.7	39.7	54.0	22.6	20.6	
40-130	30	336	42.8	42.8	54.0	22.6	20.6	
40-132	32	367	44.5	44.5	55.5	25.0	22.2	
40-135	35	431	47.6	47.6	58.8	27.8	25.4	
40-136	36	449	49.1	49.1	60.3	27.8	25.4	
40-138	38	490	50.8	50.8	61.9	27.8	25.4	
40-141	41	689	57.1	57.1	63.5	30.9	30.1	
40-142	42	712	57.2	57.2	63.5	30.9	30.2	
40-146	46	894	61.9	61.9	69.9	34.1	31.8	
40-150	50	1066	68.2	68.2	73.0	36.9	35.7	
40-154	54	1388	76.2	76.2	77.8	39.7	38.9	
40-155	55	1492	76.2	76.2	77.8	40.0	38.9	
40-158	58	1451	82.6	82.6	87.3	39.7	36.5	
40-160	60	1887	82.6	82.6	87.3	40.0	41.3	



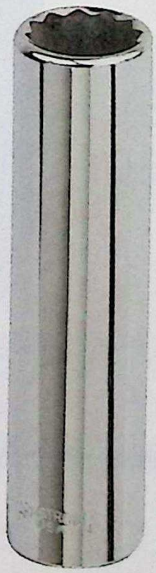
Extra Deep 6-Point Lobular Opening Sockets

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
13-234	1-1/16	0.90	1.500	1.500	3.500	0.671	0.812	
13-236	1-1/8	1.10	1.625	1.625	3.500	0.796	0.875	
13-240	1-1/4	1.20	1.750	1.750	3.500	0.796	0.937	
13-242	1-5/16	1.25	1.812	1.812	3.500	0.921	0.937	
13-244	1-3/8	1.35	1.875	1.875	3.500	0.921	1.000	
13-246	1-7/16	1.40	1.937	1.937	3.500	0.921	1.062	
13-248	1-1/2	1.70	2.062	2.062	3.500	1.046	1.125	
13-252	1-5/8	2.10	2.250	2.250	3.500	1.046	1.187	



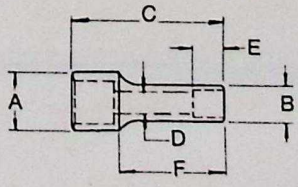
Extra Deep 12-Point Lobular Opening Sockets

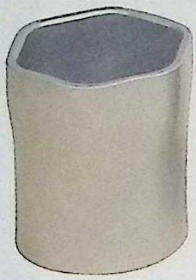
Product Number	Opening Inches	Weight Lbs	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
13-328	7/8	.71	1.312	1.312	3.250	0.671	0.687	
13-330	15/16	.72	1.375	1.375	3.250	0.671	0.750	
13-332	1	.81	1.437	1.437	3.375	0.671	0.812	
13-334	1-1/16	.91	1.500	1.500	3.500	0.671	0.812	
13-336	1-1/8	1.13	1.625	1.625	3.500	0.796	0.875	
13-340	1-1/4	1.18	1.750	1.750	3.500	0.796	0.937	
13-342	1-5/16	1.23	1.812	1.812	3.500	0.921	0.937	
13-344	1-3/8	1.37	1.875	1.875	3.500	0.921	1.000	
13-346	1-7/16	1.40	1.937	1.937	3.500	0.921	1.062	
13-348	1-1/2	1.74	2.062	2.062	3.500	1.046	1.125	
13-352	1-5/8	2.12	2.250	2.250	3.500	1.046	1.187	



Extra Deep 12-Point Lobular Opening Sockets METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
40-319	19	295	33.3	28.6	82.6	14.7	14.2	31.7
40-322	22	322	33.3	33.3	82.6	17.0	16.6	
40-323	23	326	34.9	34.9	82.6	18.6	16.6	
40-324	24	340	34.9	34.9	82.6	18.6	16.6	
40-327	27	413	38.1	38.1	88.9	20.7	19.0	
40-330	30	522	42.8	42.8	88.9	22.6	20.6	
40-332	32	535	44.4	44.4	88.9	25.0	22.2	
40-335	35	608	47.6	47.6	85.7	27.8	25.4	
40-336	36	621	49.2	49.2	88.9	27.8	27.0	
40-338	38	748	50.8	50.8	88.9	27.8	25.4	
40-341	41	953	57.1	57.1	88.9	30.9	30.1	
40-346	46	1524	67.3	67.3	95.2	34.1	32.5	
40-350	50	2046	68.2	68.2	101.6	36.9	35.7	
40-355	55	2731	76.2	76.2	107.8	40.0	38.8	
40-360	60	3670	82.6	82.6	114.3	40.0	41.2	

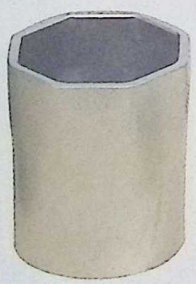




Axle Nut Sockets, 6-Point Opening

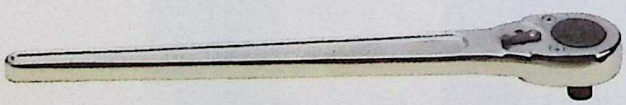
Product Number	Weight Lbs.	Opening, Inches
13-802	1.12	2-3/32
13-803	1.89	2-1/4
13-805	2.03	2-3/8
13-806*	2.06	2-3/8
13-808	2.12	2-1/2
13-809	2.14	2-9/16
13-810*	2.15	2-9/16
13-811	2.19	2-5/8
13-813	2.31	2-3/4
13-816	2.40	2-7/8
13-818	2.54	3
13-822	2.68	3-1/4
13-826	2.97	3-1/2
13-834	3.33	3-7/8
13-836	3.41	4
13-838	3.67	4-1/8
13-840	3.73	4-3/8
13-845	4.08	4-7/8

*Fits special "rounded" hex nut on Dana axle of some Ford trucks.



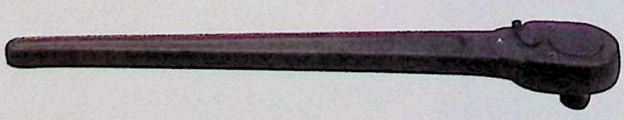
Axle Nut Sockets, 8-Point Opening

Product Number	Weight Lbs.	Opening, Inches
13-855	2.02	2-3/8
13-859	2.13	2-9/16
13-863	2.35	2-3/4
13-868	2.56	3
13-872	2.70	3-1/4
13-876	3.01	3-1/2
13-880	3.09	3-3/4
13-882	3.11	3-13/16
13-884	3.34	3-7/8
13-890	3.77	4-3/8
13-895	4.12	4-7/8



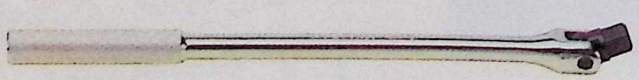
Ratchet

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
13-906	4.98	19	2.750	1.063



Ratchet, Black Finish

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
21-906	4.93	19	2.750	1.063



Hinge Handle

Product Number	Weight Lbs.	Overall Length
13-918	4.54	22

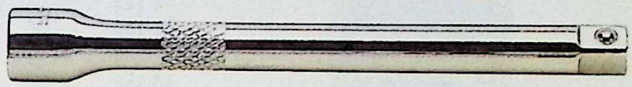
Always wear eye protection when near tools in use.

Hinge Handle, Black Finish

Product Number	Weight Lbs.	Overall Length
21-918	4.69	22

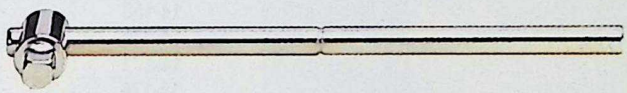
Extensions

Product Number	Weight Lbs.	Overall Length
13-922	1.10	5
13-923	1.77	8
13-925	3.41	16



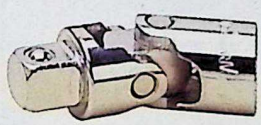
T-Handle

Product Number	Weight Lbs.	Overall Length
13-938	2.62	17-1/2



Universal Joint

Product Number	Weight Lbs.
13-947	1.70



Drive Adapters

Product Number	Weight Lbs.	Description
13-951	.51	3/4"F, 1/2"M
13-952	.75	3/4"F, 1"M

CAUTION:

Adapting down to a smaller drive size may result in excessive torque application, causing failure of fastener, socket or adapter.

Ratchet Repair Kit

Product 13-966

Contains the following parts, with instructions, for repairing 13-906 and 21-906 Ratchet: Gear, 2 Springs, Shifting Lever, Shifter, 2 Pawls, Face Plate, 2 Plate Screws, and 2 Lock Washers. In plastic bag. Approximate weight, 1.37 pounds.

Hinge Handle Repair Kit

Product 13-970

Contains the following parts, with instructions, for repairing 13-918 and 21-918 Hinge Handle: Swivel Head Drive Square, Groove Pin, Spring Washer. In envelope. Approximate weight, 1.25 pounds.

Ratchet Repair Kit

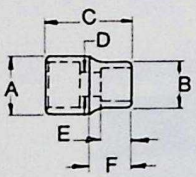
Product Number 21-966

Contains the following parts, with instructions, for repairing 21-906 Ratchet: Gear, 2 Springs, Shifting Lever, Shifter, 2 Pawls, Face Plate, 2 Plate Screws and 2 Lock Washers. In plastic bag. Approximate weight, 1.30 lbs.

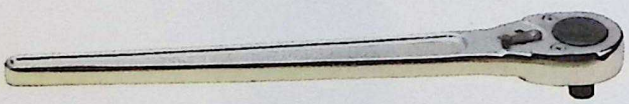
SAFETY NOTICE

Since ratchets include moving parts, periodic inspection and, if necessary, cleaning, lubrication with a light grade oil, and replacement of worn parts will become necessary. Parts should not be replaced individually, but rather in total, and complete Ratchet Repair Kits are available.

Standard Length 12-Point Opening Sockets



Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
14-134	1-1/16	.76	1.875	1.510	2.500	0.871	0.843	1.000
14-136	1-1/8	.79	1.875	1.625	2.500	0.921	0.843	1.000
14-140	1-1/4	.83	1.875	1.760	2.500	0.921	0.875	1.000
14-142	1-5/16	.83	1.937	1.937	2.500	0.921	0.906	
14-144	1-3/8	.84	1.937	1.937	2.500	0.921	0.937	
14-146	1-7/16	.94	2.000	1.937	2.500	0.921	0.937	
14-148	1-1/2	.96	2.062	1.937	2.500	1.046	1.000	
14-152	1-5/8	1.28	2.250	1.937	2.625	1.046	1.125	
14-154	1-11/16	1.47	2.375	2.375	2.625	1.171	1.187	
14-156	1-3/4	1.67	2.438	2.438	2.875	1.171	1.500	
14-158	1-13/16	1.85	2.500	2.500	2.875	1.171	1.187	
14-160	1-7/8	2.11	2.625	2.625	2.875	1.296	1.187	
14-164	2	2.74	2.875	2.875	3.000	1.296	1.750	
14-168	2-1/8	3.23	3.000	3.000	3.125	1.421	1.812	
14-170	2-3/16	3.40	3.125	3.125	3.125	1.546	1.437	
14-172	2-1/4	3.49	3.125	3.125	3.125	1.546	1.437	
14-176	2-3/8	4.70	3.375	3.375	3.500	1.546	1.500	
14-180	2-1/2	4.79	3.500	3.500	3.625	1.671	1.625	
14-182	2-9/16	5.24	3.500	3.500	3.625	1.671	1.625	
14-184	2-5/8	5.82	3.625	3.625	3.750	1.796	1.750	
14-188	2-3/4	6.46	3.750	3.750	3.875	1.796	1.812	
14-194	2-15/16	7.74	4.000	4.000	4.125	1.921	2.000	
14-196	3	8.73	4.125	4.125	4.250	2.047	2.062	
14-200	3-1/8	9.80	4.250	4.250	4.375	2.046	2.125	
14-212	3-1/2	10.91	4.750	4.750	5.000	2.297	2.500	

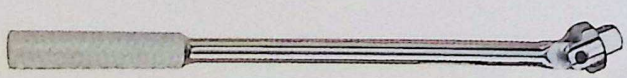


Ratchet

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
14-906	10.97	30	3.750	1.375

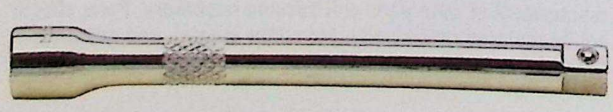
Ratchet, Black Finish

Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
22-906	10.65	30	3.750	1.375



Hinge Handle

Product Number	Weight Lbs.	Overall Length
14-918	8.90	27



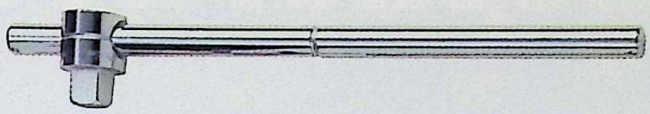
Extensions

Product Number	Weight Lbs.	Overall Length
14-924	3.40	9
14-926	6.80	18

Always wear eye protection when near tools in use

Sliding Handle

Product Number	Weight Lbs.	Overall Length
14-939	4.51	20



Adapter for 14-939 Handle

Product Number	Weight Lbs.
14-940	1.37

Drive Adapter, 1"F, 3/4"M

Product Number	Weight Lbs.
14-951	.89

CAUTION:

Adapting down to a smaller drive size may result in excessive torque application, causing failure of fastener, socket or adapter.

Ratchet Repair Kit

Product No. 14-966

Contains the following parts, with instructions, for repairing 14-906 and 22-906 Ratchet: Gear, 2 Springs, Shifting Lever, Shifter, 2 Pawls, Face Plate, 2 Plate Screws, and 2 Lock Washers. In plastic bag. Approximate weight, 2.05 pounds.

SAFETY NOTICE

Since ratchets include moving parts, periodic inspection and, if necessary, cleaning, lubrication with a light grade oil, and replacement of worn parts will become necessary. Parts should not be replaced individually, but rather in total, and complete Ratchet Repair Kits are available.

1-1/2" Drive

Ratchet, Black Finish

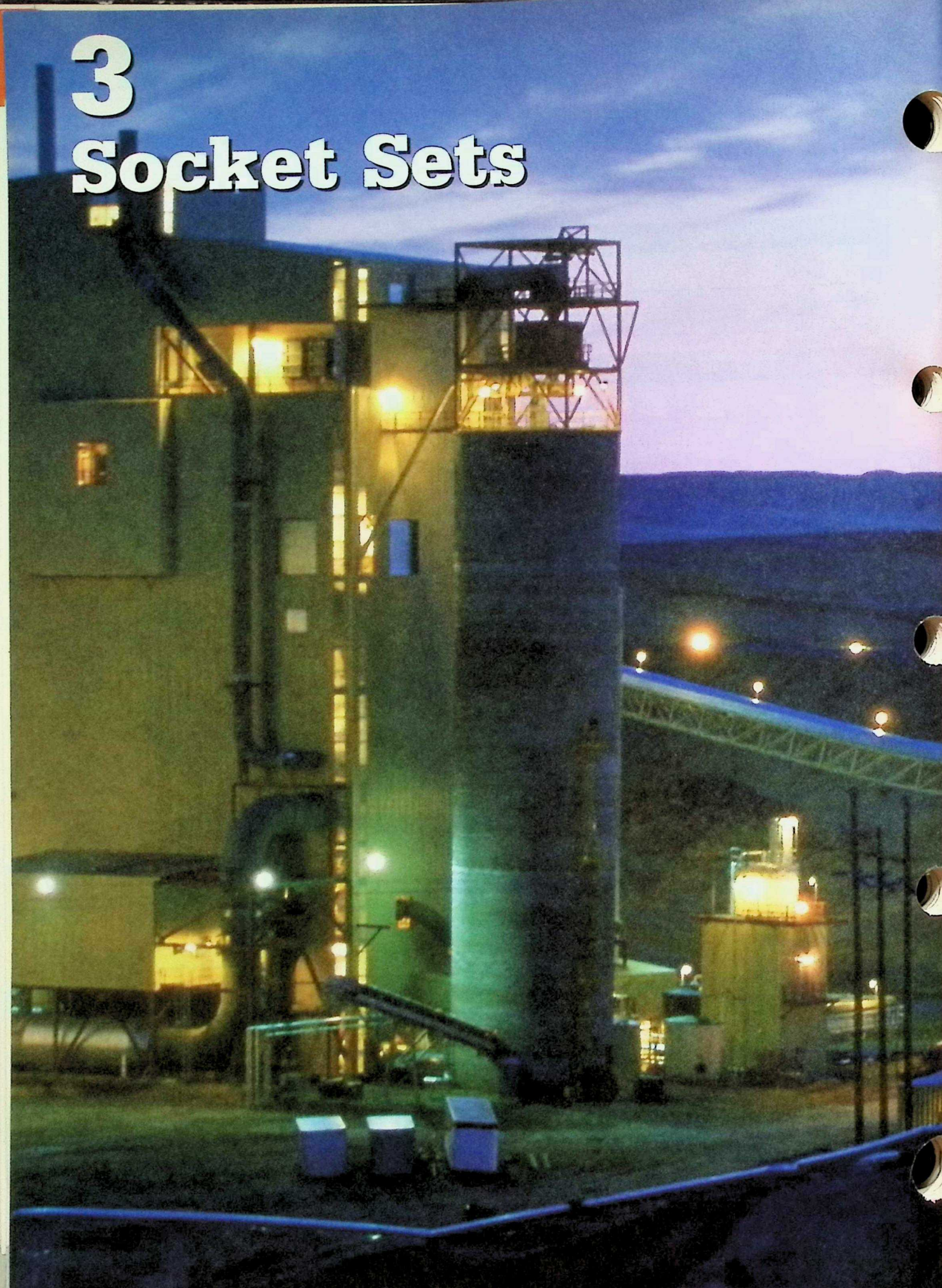
Product Number	Weight Lbs.	Overall Length	Head Width	Head Depth
23-906	11.03	30	3.750	1.375

Ratchet Repair Kit

Product 23-966

Contains the following parts, with instructions, for repairing 23-906 Ratchet: Gear, 2 Springs, Shifting Lever, Shifter, 2 Pawls, Face Plate, 2 Plate Screws, and 2 Lock Washers. In Plastic Bag. Approximate weight, 2.47 lbs.

3
Socket Sets

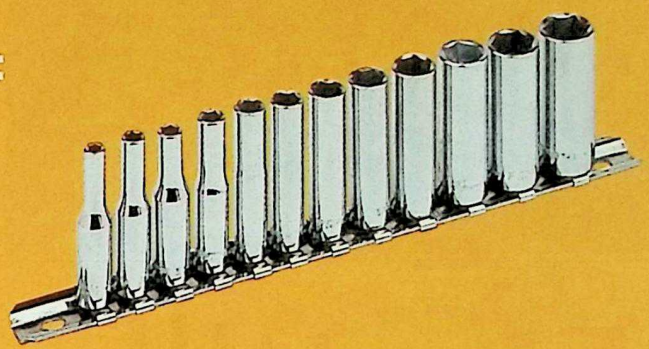


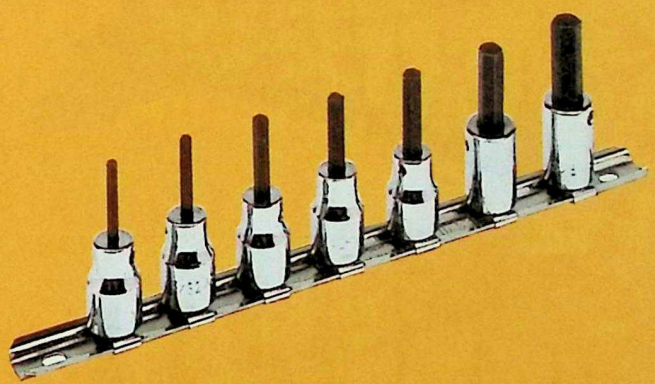
Socket Sets

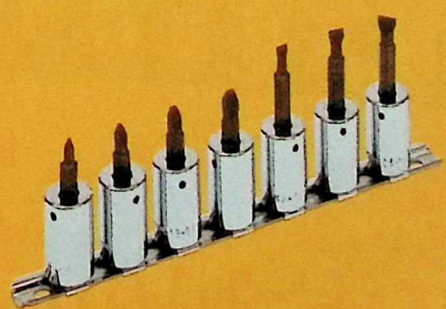
Armstrong's socket set line is one of the most comprehensive available to today's professional tool user. Popular ranges of sockets come in both tote trays and on bars and clips, permitting you to expand a set you already own without duplicating drive tools.

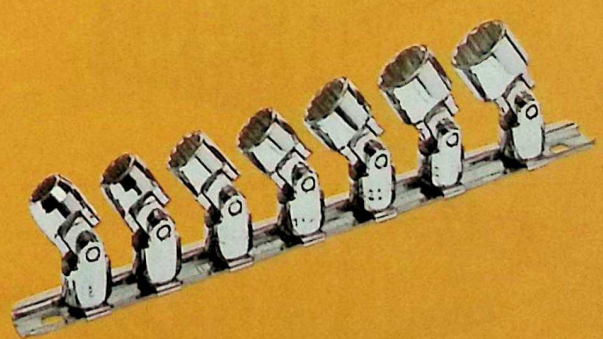
And no one can match Armstrong's vast selection of sets and wide variety of styles:

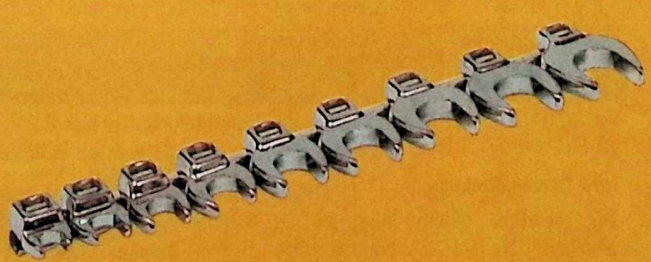
- Full range of fractional openings in 1/4", 3/8", 1/2", 3/4" and 1" drive sizes with 6 & 12 point openings.
- Full range of metric openings offered with several new sets in 1/4", 3/8", 1/2" and 3/4" drive sizes, with 6 & 12 point openings.
- Choice of standard and extra long hex driver sets—in both fractional and metric.
- **NEW!** A variety of new "crowfoot" style sets.
- Screwdriver style socket sets.
- **NEW!** Torx Bit drive sets.
- Available on clip rails or in metal trays.











ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS

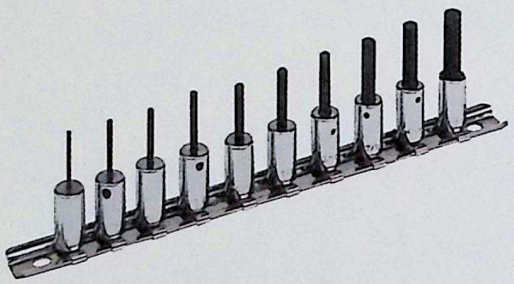
1/4" Drive Set 16-109

Contents: 7 Drive Tools. In Steel Case 16-604. Approximate weight, 2.79 lbs.

This set, consisting of the most commonly-used Drive Tools, permits you to design your own set. Simply add any Standard Length Socket Set and/or any Deep Socket Set.

Drive Tools:

Product Number	Description
10-972	Ratchet, 1/4" Dr, 5-9/32"
10-918	Hinge Handle
10-921	2" Extension
10-923	6" Extension
10-938	T-Handle
10-943	Plastic Handle Driver
10-947	U-Joint

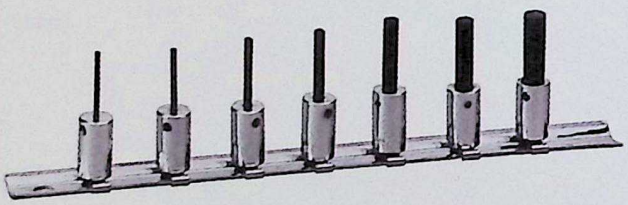


1/4" Drive Set 16-112

Contents: 10 Hex Drivers in cardboard box. Includes Socket Bar 16-831 and (10) Socket Clips 16-841. Approximate weight, 0.60 lbs.

Hex Driver Sockets

Product Number	Hex Size, Inches	Product Number	Hex Size, Inches	Product Number	Hex Size, Inches
10-705	5/64"	10-709	9/64"	10-713	1/4"
10-706	3/32"	10-710	5/32"	10-714	5/16"
10-707	7/64"	10-711	3/16"		
10-708	1/8"	10-712	7/32"		



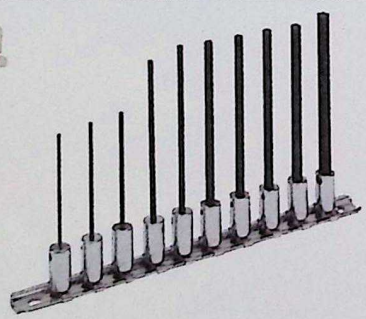
1/4" Drive Set 43-112 METRIC

Contents: 7 Hex Drivers in cardboard box. Includes Socket Bar 16-831 and (7) Socket Clips 16-841. Approximate weight, .38 lbs. (173 G).

Hex Driver Sockets

Product Number	Hex Size, mm	Product Number	Hex Size, mm	Product Number	Hex Size, mm
37-703	2mm	37-707	4mm	37-713	8mm
37-704	2.5mm	37-709	5mm		
37-705	3mm	37-711	6mm		

NEW!



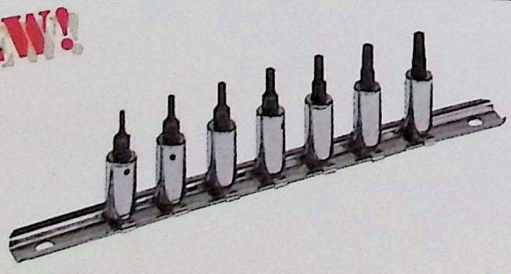
1/4" Drive Set 16-114

Contents: 10 Hex Drivers in cardboard box. Includes Socket Bar 16-831 and (10) Socket Clips 16-841. Approximate weight, 0.97 lbs.

Hex Driver Sockets with Extra Long Bits

Product Number	Hex Size, Inches	Product Number	Hex Size, Inches	Product Number	Hex Size, Inches
10-745	5/64"	10-749	9/64"	10-753	1/4"
10-746	3/32"	10-750	5/32"	10-754	5/16"
10-747	7/64"	10-751	3/16"		
10-748	1/8"	10-752	7/32"		

NEW!



1/4" Drive Set 16-117

Contents: 7 Torx Drivers in cardboard box. Includes Socket Bar 16-831 and (7) Socket Clips 16-841. Approximate weight, 0.40 lbs.

Torx Driver Sockets

Product Number	Torx Size	Product Number	Torx Size	Product Number	Torx Size
10-868	T8	10-874	T20	10-880	T30
10-870	T10	10-876	T25		
10-872	T15	10-878	T27		

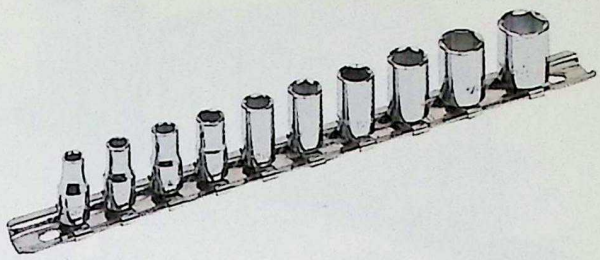
Always wear eye protection when near tools in use

1/4" Drive Set 16-120

Contents: 10 Sockets in cardboard box. Includes Socket Bar 16-831 and (10) Socket Clips 16-841. Approximate weight, 0.55 lbs.

6-pt. Std. Length Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening Inches
10-006	3/16"	10-010	5/16"	10-016	1/2"
10-007	7/32"	10-011	11/32"	10-018	9/16"
10-008	1/4"	10-012	3/8"		
10-009	9/32"	10-014	7/16"		



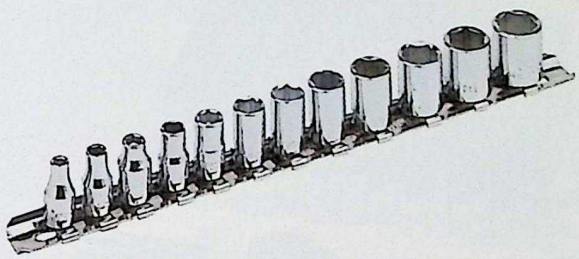
1/4" Drive Set 43-120 METRIC

NEW!

Contents: 12 Sockets in cardboard box. Includes Socket Bar 16-831 and (12) Socket Clips 16-841. Approximate weight, 0.64 lbs. (291 G).

6-pt. Std. Length Sockets

Product Number	Opening, mm	Product Number	Opening, mm	Product Number	Opening mm
37-004	4mm	37-006	6mm	37-011	11mm
37-005	5mm	37-008	8mm	37-012	12mm
37-083	5.5mm	37-009	9mm	37-013	13mm
37-007	7mm	37-010	10mm	37-014	14mm

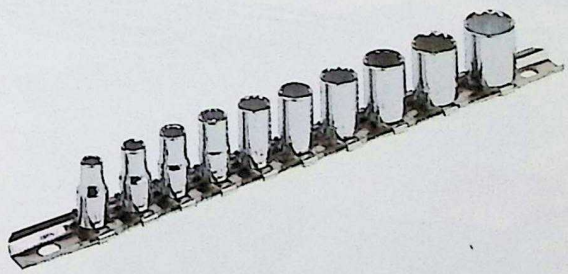


1/4" Drive Set 16-124

Contents: 10 Sockets in cardboard box. Includes Socket Bar 16-831 and (10) Socket Clips 16-841. Approximate weight, 0.53 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening Inches
10-106	3/16"	10-110	5/16"	10-116	1/2"
10-107	7/32"	10-111	11/32"	10-118	9/16"
10-108	1/4"	10-112	3/8"		
10-109	9/32"	10-114	7/16"		



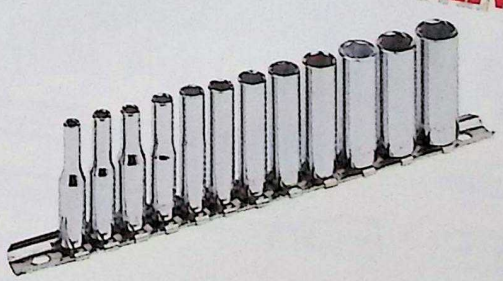
1/4" Drive Set 43-124 METRIC

NEW!

Contents: 12 Sockets in cardboard box. Includes Socket Bar 16-831 and (12) Socket Clips 16-841. Approximate weight, 1.06 lbs. (481 G).

6-pt. Deep Sockets

Product Number	Opening, mm	Product Number	Opening, mm	Product Number	Opening mm
37-204	4mm	37-207	7mm	37-211	11mm
37-205	5mm	37-208	8mm	37-212	12mm
37-283	5.5mm	37-209	9mm	37-213	13mm
37-206	6mm	37-210	10mm	37-214	14mm

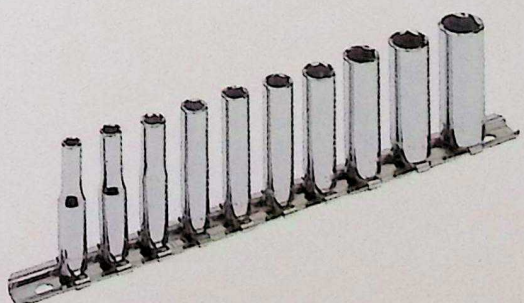


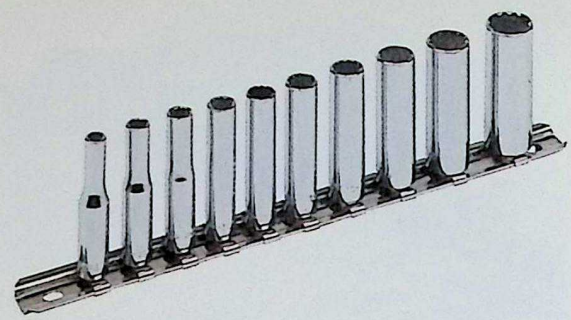
1/4" Drive Set 16-126

Contents: 10 Sockets in cardboard box. Includes Socket Bar 16-831 and (10) Socket Clips 16-841. Approximate weight, 0.88 lbs.

6-pt. Deep Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening Inches
10-206	3/16"	10-210	5/16"	10-216	1/2"
10-207	7/32"	10-211	11/32"	10-218	9/16"
10-208	1/4"	10-212	3/8"		
10-209	9/32"	10-214	7/16"		





1/4" Drive Set 16-128

Contents: 10 Sockets in cardboard box. Includes Socket Bar 16-831 and (10) Socket Clips 16-841. Approximate weight, 0.87 lbs.

12-pt. Deep Sockets

Product Number	Opening, Inches
10-306	3/16"
10-307	7/32"
10-308	1/4"
10-309	9/32"
10-310	5/16"
10-311	11/32"
10-312	3/8"
10-314	7/16"
10-316	1/2"
10-318	9/16"

1/4" Drive Set 16-152

Contents: 14 tools. 10 Sockets, 4 Drive Tools. In Steel Case 16-601. Approximate weight, 1.71 lbs.

6-pt. Std. Length Sockets

Product Number	Opening, Inches
10-006	3/16"
10-007	7/32"
10-008	1/4"
10-009	9/32"
10-010	5/16"
10-011	11/32"
10-012	3/8"
10-014	7/16"
10-016	1/2"
10-018	9/16"

Drive Tools:

Product Number	Description
10-921	Extension, 1/4" Dr, 2"
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4"Dr, 5-9/32"

1/4" Drive Set 43-152 METRIC

Contents: 16 tools. 12 Sockets, 4 Drive Tools. In Steel Case 16-601. Approximate weight, 1.80 lbs. (817 G).

6-pt. Std. Length Sockets

Product Number	Opening, mm
37-004	4mm
37-005	5mm
37-083	5.5mm
37-006	6mm
37-007	7mm
37-008	8mm
37-009	9mm
37-010	10mm
37-011	11mm
37-012	12mm
37-013	13mm
37-014	14mm

Drive Tools:

Product Number	Description
10-921	Extension, 1/4" Dr, 2"
10-923	Extension, 1/4" Dr, 6"
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4"Dr, 5-9/32"

Always wear eye protection when near tools

1/4" Drive Set 16-158

Contents: 17 Tools. 13 Sockets, 4 Drive Tools. In Steel Case 16-601. Approximate weight, 1.82 lbs.

6-pt. Std. Length Sockets

Product Number	Opening, Inches
10-006	3/16"
10-007	7/32"
10-008	1/4"
10-009	9/32"
10-010	5/16"
10-011	11/32"
10-012	3/8"
10-014	7/16"
10-016	1/2"
10-018	9/16"

Drive Tools:

Product Number	Description
10-921	Extension, 1/4" Dr, 2"
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4"Dr, 5-9/32"

8 (4*)-pt. Sockets

Product Number	Opening, Inches
10-408*	1/4"
10-410	5/16"
10-412	3/8"

1/4" Drive Set 43-158 METRIC

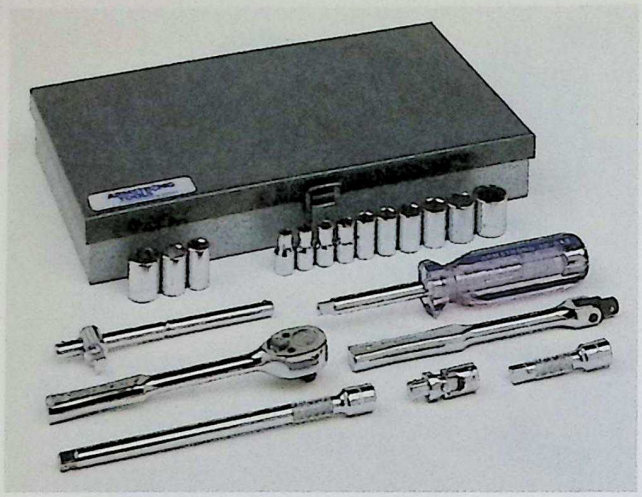
Contents: 18 tools. 12 Sockets, 6 Drive Tools. In Steel Case 16-604. Approximate weight, 3.19 lbs. (1,448 G).

6-pt. Std. Length Sockets

Product Number	Opening, mm
37-004	4mm
37-005	5mm
37-083	5.5mm
37-006	6mm
37-007	7mm
37-008	8mm
37-009	9mm
37-010	10mm
37-011	11mm
37-012	12mm
37-013	13mm
37-014	14mm

Drive Tools:

Product Number	Description
10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-923	Extension, 1/4" Dr, 6"
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4"Dr, 5-9/32"



1/4" Drive Set 16-159

Contents: 20 tools. 13 Sockets, 7 Drive Tools. In Steel Case 16-604. Approximate weight, 2.91 lbs.

6-pt. Std. Length Sockets

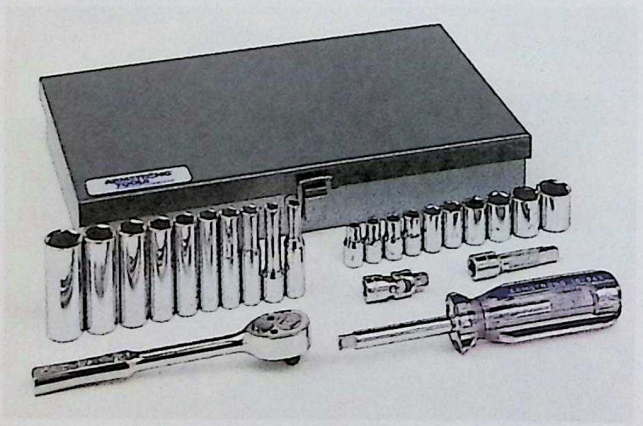
Product Number	Opening, Inches
10-006	3/16"
10-007	7/32"
10-008	1/4"
10-009	9/32"
10-010	5/16"
10-011	11/32"
10-012	3/8"
10-014	7/16"
10-016	1/2"
10-018	9/16"

8 (4*)-pt. Sockets

Product Number	Opening, Inches
10-408*	1/4"
10-410	5/16"
10-412	3/8"

Drive Tools:

Product Number	Description
10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-923	Extension, 1/4" Dr, 6"
10-938	T-Handle, 1/4" Dr
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4"Dr, 5-9/32"



1/4" Drive Set 16-172

Contents: 24 tools. 20 Sockets, 4 Drive Tools. In Steel Case 16-604. Approximate weight, 3.54 lbs.

6-pt. Std. Length Sockets

Product Number	Opening, Inches
10-006	3/16"
10-007	7/32"
10-008	1/4"
10-009	9/32"
10-010	5/16"
10-011	11/32"
10-012	3/8"
10-014	7/16"
10-016	1/2"
10-018	9/16"

6-pt. Deep Sockets

Product Number	Opening, Inches
10-206	3/16"
10-207	7/32"
10-208	1/4"
10-209	9/32"
10-210	5/16"
10-211	11/32"
10-212	3/8"
10-214	7/16"
10-216	1/2"
10-218	9/16"

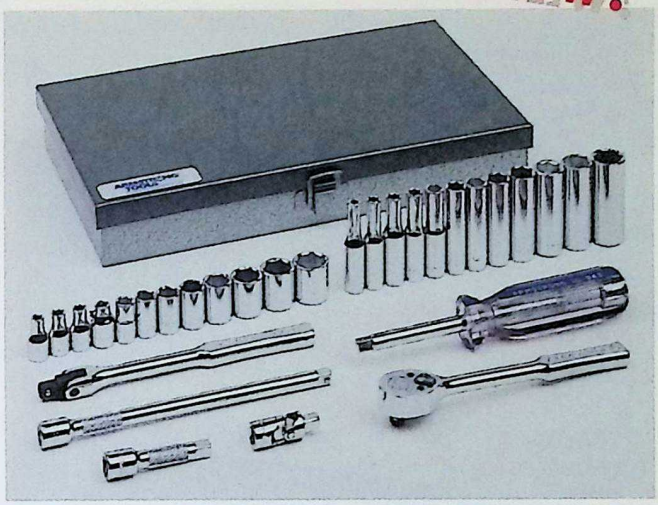
Drive Tools:

Product Number	Description
10-921	Extension, 1/4" Dr, 2"
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4"Dr, 5-9/32"

Always wear eye protection when near tools

1/4" Drive Set 43-172 METRIC

NEW!



Contents: 30 tools. 24 Sockets, 6 Drive Tools. In Steel Case 16-604. Approximate weight, 4.07 lbs. (1,848 G).

6-pt. Std. Length Sockets

Product Number	Opening, mm
37-004	4mm
37-005	5mm
37-083	5.5mm
37-006	6mm
37-007	7mm
37-008	8mm
37-009	9mm
37-010	10mm
37-011	11mm
37-012	12mm
37-013	13mm
37-014	14mm

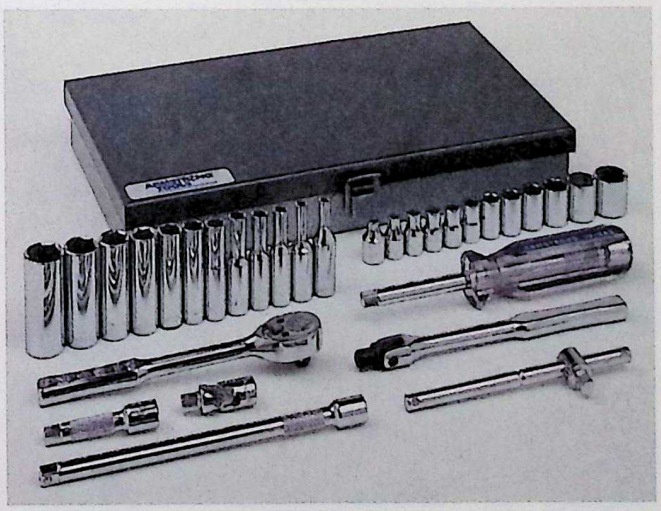
Drive Tools:

Product Number	Description
10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-923	Extension, 1/4" Dr, 6"
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4"Dr, 5-9/32"

6-pt. Deep Sockets

Product Number	Opening, mm
37-204	4mm
37-205	5mm
37-283	5.5mm
37-206	6mm
37-207	7mm
37-208	8mm
37-209	9mm
37-210	10mm
37-211	11mm
37-212	12mm
37-213	13mm
37-214	14mm

1/4" Drive Set 16-174



Contents: 31 tools. 24 Sockets, 7 Drive Tools. In Steel Case 16-604. Approximate weight, 4.07 lbs.

6-pt. Std. Length Sockets

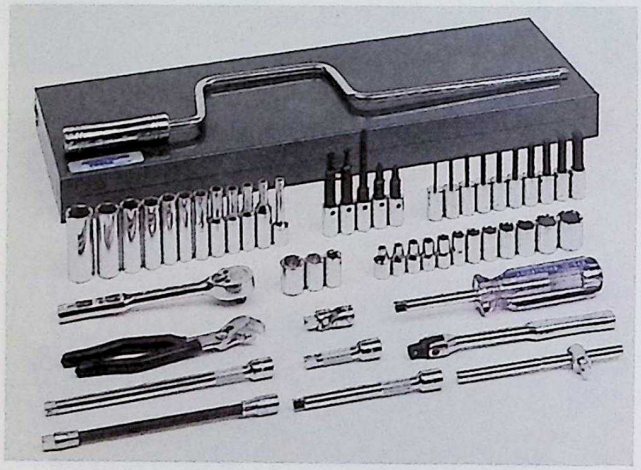
Product Number	Opening, Inches
10-004	1/8"
10-005	5/32"
10-006	3/16"
10-007	7/32"
10-008	1/4"
10-009	9/32"
10-010	5/16"
10-011	11/32"
10-012	3/8"
10-014	7/16"
10-016	1/2"
10-018	9/16"

6-pt. Deep Sockets

Product Number	Opening, Inches
10-204	1/8"
10-205	5/32"
10-206	3/16"
10-207	7/32"
10-208	1/4"
10-209	9/32"
10-210	5/16"
10-211	11/32"
10-212	3/8"
10-214	7/16"
10-216	1/2"
10-218	9/16"

Drive Tools:

Product Number	Description
10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-923	Extension, 1/4" Dr, 6"
10-938	T-Handle, 1/4" Dr
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4"Dr, 5-9/32"



1/4" Drive Set 16-193

Contents: 53 tools. 42 Sockets, 10 Drive Tools, 1 Pliers. In Steel Case 16-606. Approximate weight, 6.27 lbs.

6-pt. Std. Length Sockets

Product Number	Opening, Inches
10-004	1/8"
10-005	5/32"
10-006	3/16"
10-007	7/32"
10-008	1/4"
10-009	9/32"
10-010	5/16"
10-011	11/32"
10-012	3/8"
10-014	7/16"
10-016	1/2"
10-018	9/16"

6-pt. Deep Sockets

Product Number	Opening, Inches
10-204	1/8"
10-205	5/32"
10-206	3/16"
10-207	7/32"
10-208	1/4"
10-209	9/32"
10-210	5/16"
10-211	11/32"
10-212	3/8"
10-214	7/16"
10-216	1/2"
10-218	9/16"

8 (4*)-pt. Sockets

Product Number	Opening, Inches
10-408*	1/4"
10-410	5/16"
10-412	3/8"

Hex Driver Sockets

Product Number	Opening, Inches
10-705	5/64"
10-706	3/32"
10-707	7/64"
10-708	1/8"
10-709	9/64"
10-710	5/32"
10-711	3/16"
10-712	7/32"
10-713	1/4"
10-714	5/16"

Screwdriver Sockets

Product Number	Opening, Inches/Phillips
10-801	3/16" x 1/32"
10-802	1/4" x 1/32"
10-821	#1
10-822	#2
10-823	#3

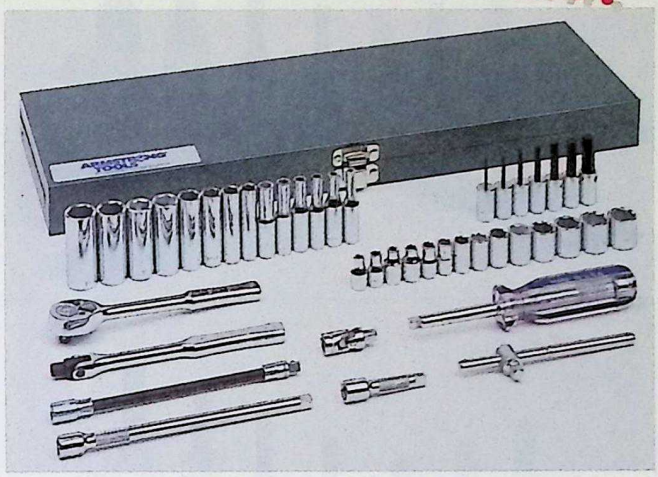
Drive Tools:

Product Number	Description
10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-922	Extension, 1/4" Dr, 4"
10-923	Extension, 1/4" Dr, 6"
10-929	Flex Extension
10-935	Speeder, 1/4" Dr
10-938	T-Handle, 1/4" Dr
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4" Dr, 5-9/32"
67-717	Pliers-T & G, 5" Ignition

Always wear eye protection when near tools in use

1/4" Drive Set 43-193 METRIC

NEW!



Contents: 43 tools. 35 Sockets, 8 Drive Tools. In Steel Case 16-606. Approximate weight, 5.57 lbs. (2,529 G).

6-pt. Std. Length Sockets

Product Number	Opening, mm
37-004	4mm
37-081	4.5mm
37-005	5mm
37-083	5.5mm
37-006	6mm
37-007	7mm
37-008	8mm
37-009	9mm
37-010	10mm
37-011	11mm
37-012	12mm
37-013	13mm
37-014	14mm
37-015	15mm

6-pt. Deep Sockets

Product Number	Opening, mm
37-204	4mm
37-281	4.5mm
37-205	5mm
37-283	5.5mm
37-206	6mm
37-207	7mm
37-208	8mm
37-209	9mm
37-210	10mm
37-211	11mm
37-212	12mm
37-213	13mm
37-214	14mm
37-215	15mm

Hex Driver Sockets

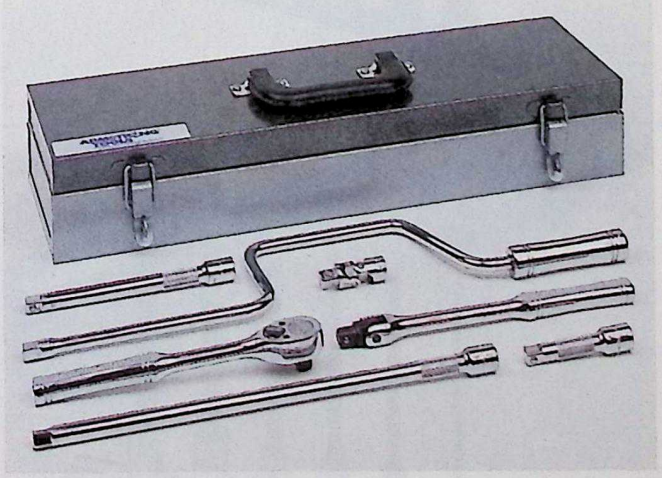
Product Number	Opening, mm
37-703	2mm
37-704	2.5mm
37-705	3mm
37-707	4mm
37-709	5mm
37-711	6mm
37-713	8mm

Drive Tools:

Product Number	Description
10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-923	Extension, 1/4" Dr, 6"
10-929	Flex Extension
10-938	T-Handle, 1/4" Dr
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4"Dr, 5-9/32"

3/8" Drive

3/8" Drive Set 16-209



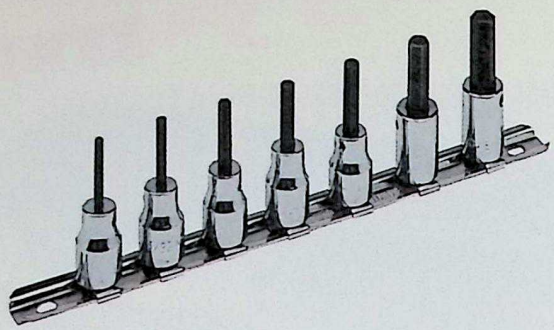
Contents: 7 Drive Tools. In Steel Case 16-613.

Approximate weight, 7.68 lbs.

This set, consisting of the most commonly-used Drive Tools, permits you to design your own set. Simply add up to two Standard Length Socket Sets and/or any Deep Socket Set.

Drive Tools:

Product Number	Description
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-935	Speeder, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"



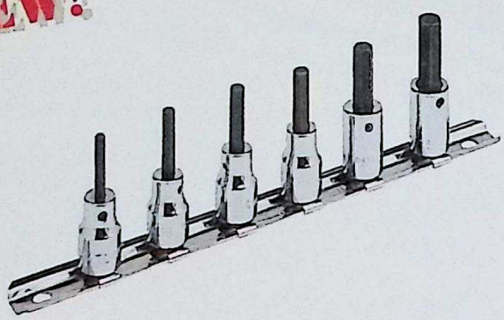
3/8" Drive Set 16-212

Contents: 7 Hex Drivers in cardboard box. Includes Socket Bar 16-831 and (7) Socket Clips 16-843. Approximate weight, 0.69 lbs.

Hex Driver Sockets with Std. Length Bits

Product Number	Opening, Inches
11-708	1/8"
11-710	5/32"
11-711	3/16"
11-712	7/32"
11-713	1/4"
11-714	5/16"
11-715	3/8"

NEW!

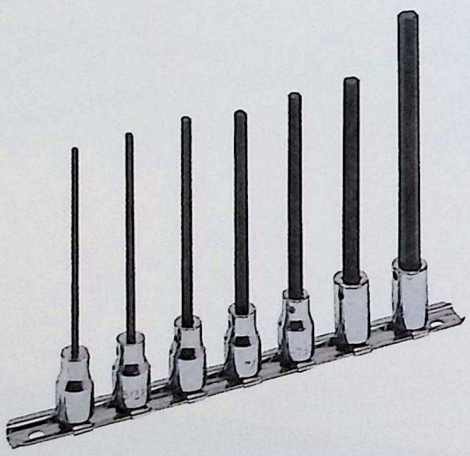


3/8" Drive Set 43-211 METRIC

Contents: 6 Hexdriver Sockets in cardboard box. Includes Socket Bar 16-831 and (6) Socket Clips 16-843. Approximate weight, 0.65 lbs. (295 G).

Hex Driver Sockets with Std. Length Bits

Product Number	Opening, mm
38-707	4mm
38-709	5mm
38-711	6mm
38-712	7mm
38-713	8mm
38-715	10mm



3/8" Drive Set 16-214

Contents: 7 Hex Drivers in cardboard box. Includes Socket Bar 16-831 and (7) Socket Clips 16-843. Approximate weight, 1.03 lbs.

Hex Driver Sockets with Extra Long Bits

Product Number	Opening, Inches
11-748	1/8"
11-750	5/32"
11-751	3/16"
11-752	7/32"
11-753	1/4"
11-754	5/16"
11-755	3/8"

NEW!

3/8" Drive Set 43-214 METRIC

Contents: 6 Hex Drivers in cardboard box. Includes Socket Bar 16-831 and (6) Socket Clips 16-843. Approximate weight, 0.96 lbs. (436 G).

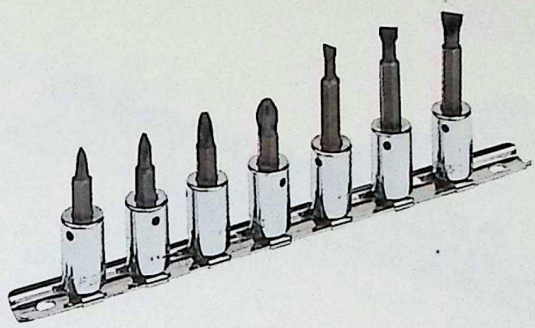
Hex Driver Sockets with Extra Long Bits

Product Number	Opening, mm
38-747	4mm
38-749	5mm
38-751	6mm
38-752	7mm
38-753	8mm
38-755	10mm

Always wear eye protection when near tools in use

3/8" Drive Set 16-216

Contents: 7 Screwdriver Sockets in cardboard box. Includes Socket Bar 16-831 and (7) Socket Clips 16-843.
Approximate weight, 0.86 lbs.



Slotted Screwdriver Sockets

Product Number	Opening, Inches
11-802	1/4" x 1/32"
11-803	5/16" x 3/64"
11-805	3/8"x 1/16"

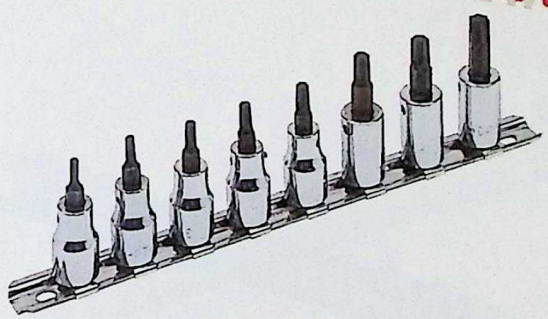
Phillips Screwdriver Sockets

Product Number	Opening, Number
11-821	#1
11-822	#2
11-825	#3
11-828	#4

3/8" Drive Set 16-217

NEW!

Contents: 8 Torx Drivers in cardboard box. Includes Socket Bar 16-831 and (8) Socket Clips 16-843. Approximate weight, 0.85 lbs.



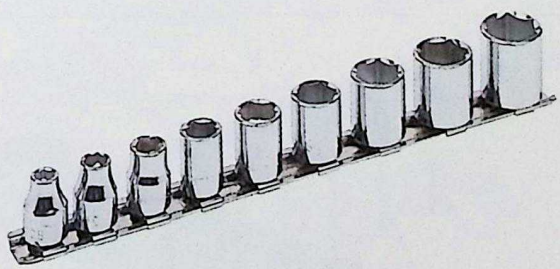
Torx Driver Sockets

Product Number	Opening, Torx
11-872	T15
11-874	T20
11-876	T25
11-878	T27

Product Number	Opening, Torx
11-880	T30
11-882	T40
11-884	T45
11-886	T50

3/8" Drive Set 16-220

Contents: 9 sockets in cardboard box. Includes Socket Bar 16-831 and (9) Socket Clips 16-843. Approximate weight, 0.85 lbs.



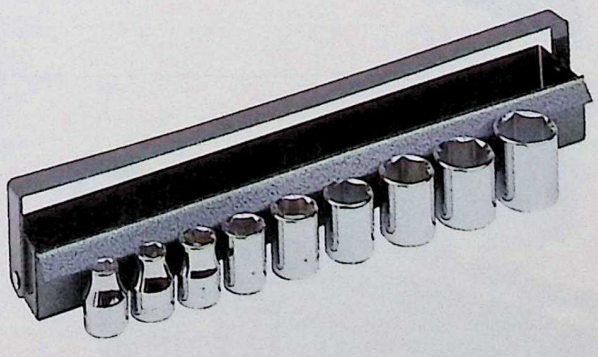
6-pt. Std. Length Sockets

Product Number	Opening, Inches
11-008	1/4"
11-010	5/16"
11-012	3/8"
11-014	7/16"
11-016	1/2"

Product Number	Opening, Inches
11-018	9/16"
11-020	5/8"
11-022	11/16"
11-024	3/4"

3/8" Drive Set 16-221

Contents: 9 Sockets in Tote Tray 16-681.
Approximate weight, 1.20 lbs.

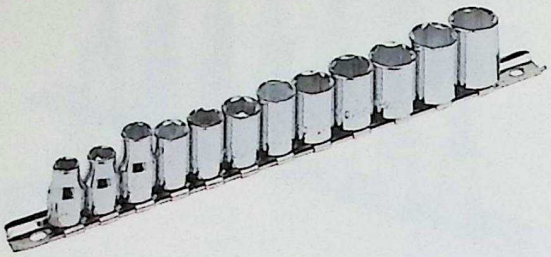


6-pt. Std. Length Sockets

Product Number	Opening, Inches
11-008	1/4"
11-010	5/16"
11-012	3/8"
11-014	7/16"
11-016	1/2"

Product Number	Opening, Inches
11-018	9/16"
11-020	5/8"
11-022	11/16"
11-024	3/4"

NEW!



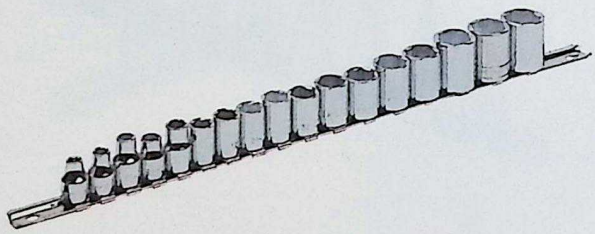
3/8" Drive Set 43-218 METRIC

Contents: 12 Sockets in cardboard box.
Includes Socket Bar 16-832 and (12) Socket Clips 16-843.
Approximate weight, 1.16 lbs. (527 G).

6-pt. Std. Length Sockets

Product Number	Opening, mm
38-008	8mm
38-009	9mm
38-010	10mm
38-011	11mm
38-012	12mm
38-013	13mm
38-014	14mm
38-015	15mm
38-016	16mm
38-017	17mm
38-018	18mm
38-019	19mm

NEW!

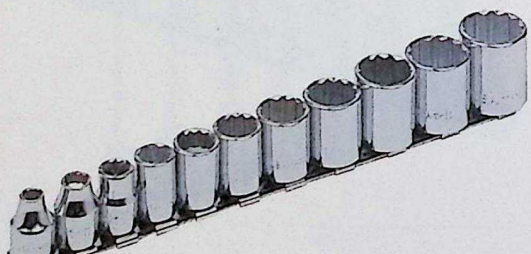


3/8" Drive Set 43-220 METRIC

Contents: 17 Sockets in cardboard box.
Includes Socket Bar 16-835 and (17) Socket Clips 16-843.
Approximate weight, 2.01 lbs. (913 G).

6-pt. Std. Length Sockets

Product Number	Opening, mm
38-006	6mm
38-007	7mm
38-008	8mm
38-009	9mm
38-010	10mm
38-011	11mm
38-012	12mm
38-013	13mm
38-014	14mm
38-015	15mm
38-016	16mm
38-017	17mm
38-018	18mm
38-019	19mm
38-020	20mm
38-021	21mm
38-022	22mm

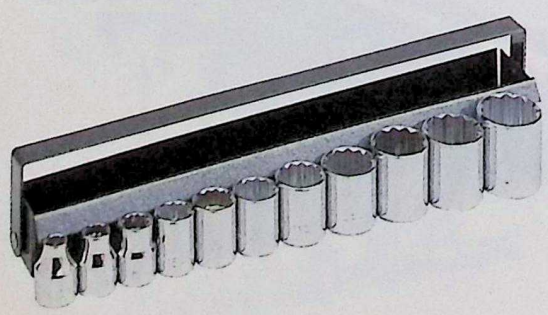


3/8" Drive Set 16-224

Contents: 11 Sockets in cardboard box. Includes Socket Bar 16-831 and (11) Socket Clips 16-843. Approximate weight, 1.34 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
11-108	1/4"
11-110	5/16"
11-112	3/8"
11-114	7/16"
11-116	1/2"
11-118	9/16"
11-120	5/8"
11-122	11/16"
11-124	3/4"
11-126	13/16"
11-128	7/8"



3/8" Drive Set 16-225

Contents: 11 Sockets in Tote Tray 16-681.
Approximate weight, 1.64 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
11-108	1/4"
11-110	5/16"
11-112	3/8"
11-114	7/16"
11-116	1/2"
11-118	9/16"
11-120	5/8"
11-122	11/16"
11-124	3/4"
11-126	13/16"
11-128	7/8"

Always wear eye protection when near tools in use

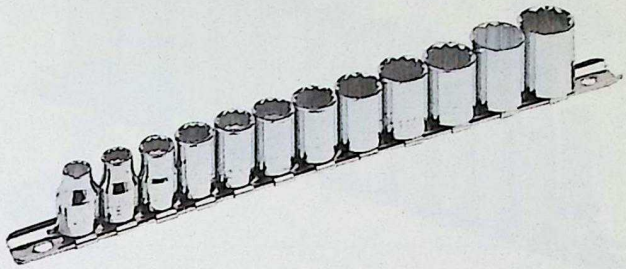
3/8" Drive Set 43-222 METRIC

NEW!

Contents: 12 Sockets in cardboard box.
Includes Socket Bar 16-832 and (12) Socket Clips 16-843.
Approximate weight, 1.16 lbs. (527 G).

12-pt. Std. Length Sockets

Product Number	Opening, mm	Product Number	Opening, mm
38-108	8mm	38-114	14mm
38-109	9mm	38-115	15mm
38-110	10mm	38-116	16mm
38-111	11mm	38-117	17mm
38-112	12mm	38-118	18mm
38-113	13mm	38-119	19mm



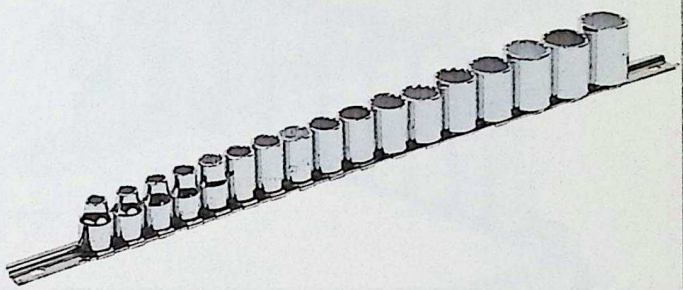
3/8" Drive Set 43-224 METRIC

NEW!

Contents: 17 Sockets in cardboard box.
Includes Socket Bar 16-835 and (17) Socket Clips 16-843.
Approximate weight, 2.03 lbs. (922 G).

12-pt. Std. Length Sockets

Product Number	Opening, mm	Product Number	Opening, mm	Product Number	Opening, mm
38-106	6mm	38-112	12mm	38-118	18mm
38-107	7mm	38-113	13mm	38-119	19mm
38-108	8mm	38-114	14mm	38-120	20mm
38-109	9mm	38-115	15mm	38-121	21mm
38-110	10mm	38-116	16mm	38-122	22mm
38-111	11mm	38-117	17mm		

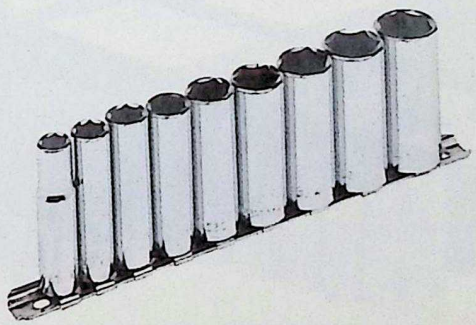


3/8" Drive Set 16-226

Contents: 9 Sockets in cardboard box. Includes Socket Bar 16-831 and (9) Socket Clips 16-843. Approximate weight, 1.98 lbs.

6-pt. Deep Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches
11-212	3/8"	11-222	11/16"
11-214	7/16"	11-224	3/4"
11-216	1/2"	11-226	13/16"
11-218	9/16"	11-228	7/8"
11-220	5/8"		

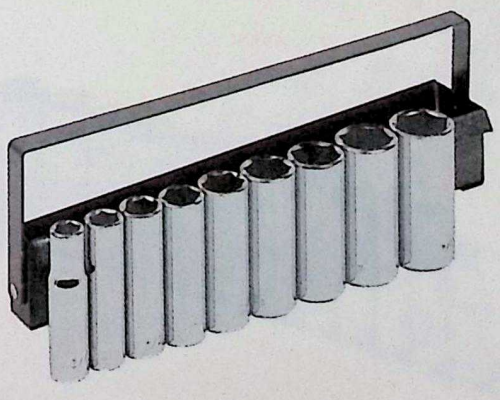


3/8" Drive Set 16-227

Contents: 9 Sockets in Tote Tray 16-685.
Approximate weight, 2.40 lbs.

6-pt. Deep Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches
11-212	3/8"	11-222	11/16"
11-214	7/16"	11-224	3/4"
11-216	1/2"	11-226	13/16"
11-218	9/16"	11-228	7/8"
11-220	5/8"		



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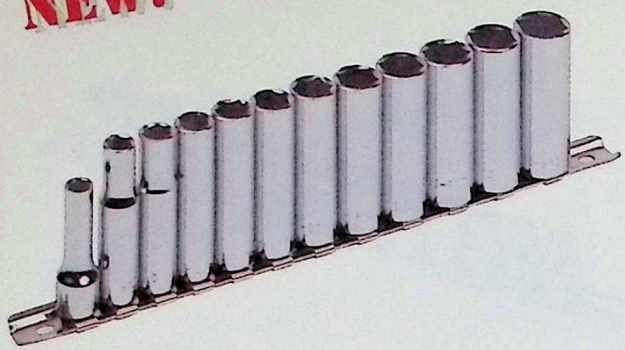
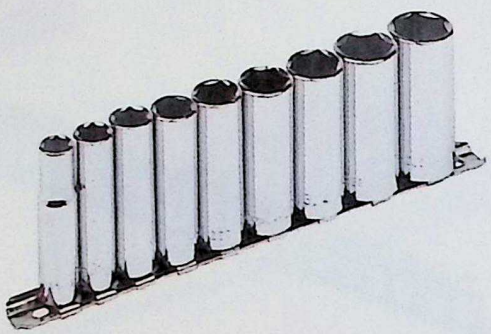


3/8" Drive Set 43-230 METRIC

Contents: 12 Sockets in cardboard box.
Includes Socket Bar 16-832 and (12) Socket Clips 16-843.
Approximate weight, 2.12 lbs. (962 G).

6-pt. Deep Sockets

Product Number	Opening, mm	Product Number	Opening, mm
38-208	8mm	38-214	14mm
38-209	9mm	38-215	15mm
38-210	10mm	38-216	16mm
38-211	11mm	38-217	17mm
38-212	12mm	38-218	18mm
38-213	13mm	38-219	19mm

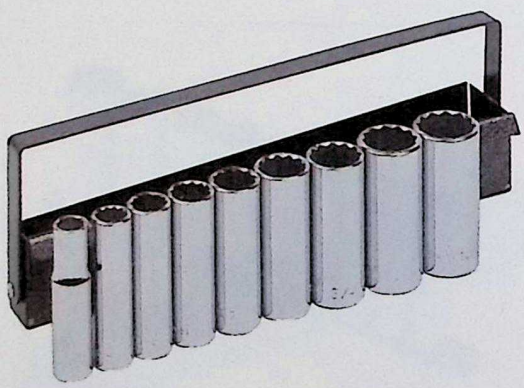


3/8" Drive Set 16-228

Contents: 9 Sockets in cardboard box. Includes Socket Bar 16-831 and (9) Socket Clips 16-843. Approximate weight, 2.03 lbs.

12-pt. Deep Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches
11-312	3/8"	11-322	11/16"
11-314	7/16"	11-324	3/4"
11-316	1/2"	11-326	13/16"
11-318	3/8"	11-328	7/8"
11-320	5/8"		



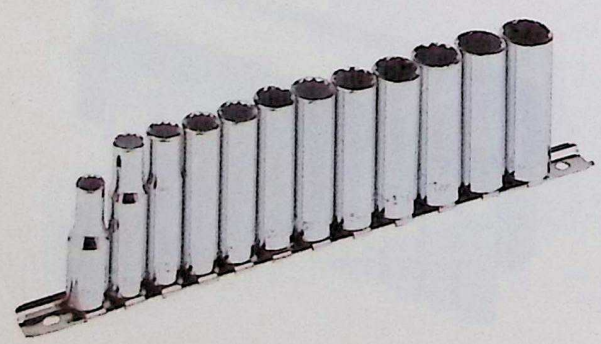
3/8" Drive Set 16-229

Contents: 9 Sockets in Tote Tray 16-685.
Approximate weight, 2.50 lbs.

12-pt. Deep Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches
11-312	3/8"	11-322	11/16"
11-314	7/16"	11-324	3/4"
11-316	1/2"	11-326	13/16"
11-318	3/8"	11-328	7/8"
11-320	5/8"		

NEW!



3/8" Drive Set 43-232 METRIC

Contents: 12 Sockets in cardboard box.
Includes Socket Bar 16-832 and (12) Socket Clips 16-843.
Approximate weight, 2.07 lbs. (940 G).

12-pt. Deep Sockets

Product Number	Opening, mm	Product Number	Opening, mm
38-308	8mm	38-314	14mm
38-309	9mm	38-315	15mm
38-310	10mm	38-316	16mm
38-311	11mm	38-317	17mm
38-312	12mm	38-318	18mm
38-313	13mm	38-319	19mm

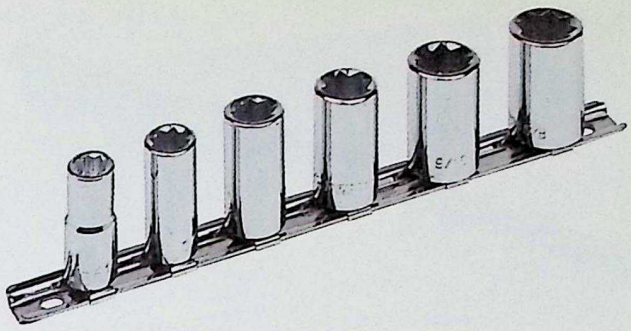
Always wear eye protection when near tools in use

3/8" Drive Set 16-231

Contents: 6 Sockets in cardboard box. Includes Socket Bar 16-831 and (6) Socket Clips 16-843. Approximate weight, 0.72 lbs.

8-pt. Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches
11-410	5/16"	11-416	1/2"
11-412	3/8"	11-418	9/16"
11-414	7/16"	11-420	5/8"

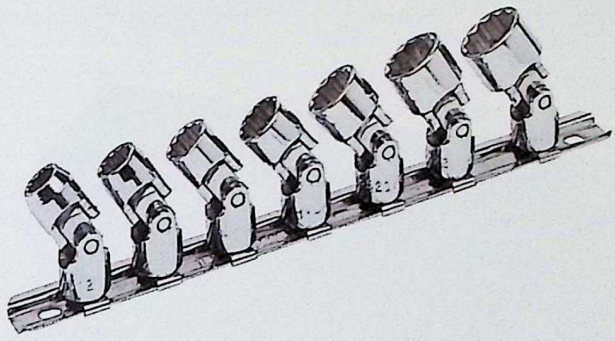


3/8" Drive Set 16-234

Contents: 7 Sockets in cardboard box. Includes Socket Bar 16-831 and (7) Socket Clips 16-843. Approximate weight, 0.89 lbs.

12-pt. Flex Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches
11-512	3/8"	11-520	5/8"
11-514	7/16"	11-522	11/16"
11-516	1/2"	11-524	3/4"
11-518	9/16"		

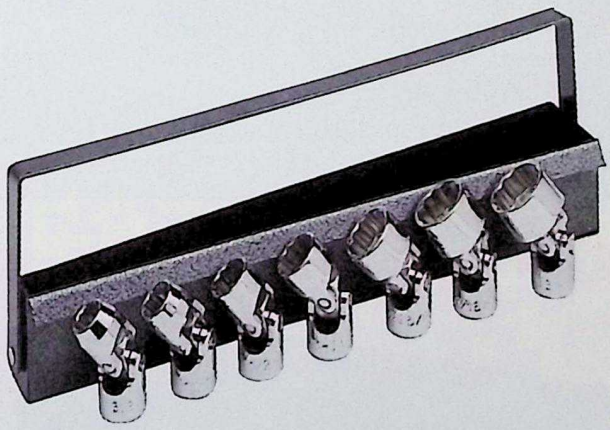


3/8" Drive Set 16-235

Contents: 7 Sockets in Tote Tray 16-685. Approximate weight, 1.32 lbs.

12-pt. Flex Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches
11-512	3/8"	11-520	5/8"
11-514	7/16"	11-522	11/16"
11-516	1/2"	11-524	3/4"
11-518	9/16"		

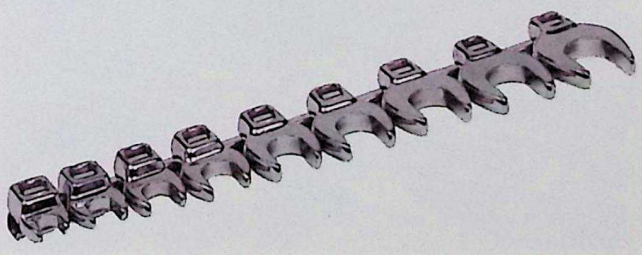


3/8" Drive Set 16-238

Contents: 9 Crowfoot Wrenches in cardboard box. Includes Socket Bar 16-832 and (9) Socket Clips 16-843. Approximate weight, 1.61 lbs.

Open End Crowfoot Wrenches

Product Number	Opening, Inches	Product Number	Opening, Inches
11-850	3/8"	11-855	11/16"
11-851	7/16"	11-856	3/4"
11-852	1/2"	11-857	13/16"
11-853	9/16"	11-858	7/8"
11-854	5/8"		



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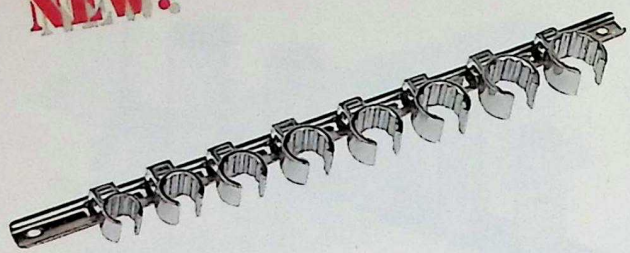


3/8" Drive Set 16-240

Contents: 8 Flare Nut Crowfoot Wrenches in cardboard box. Includes Socket Bar 16-832 and (8) Socket Clips 16-843. Approximate weight, .80 lbs.

Flare Nut Crowfoot Wrenches

Product Number	Opening, Inches
11-842	5/8"
11-843	11/16"
11-844	3/4"
11-845	13/16"
11-846	7/8"
11-847	15/16"
11-848	1"
11-849	1-1/16"

3/8" Drive Set 16-252

Contents: 11 tools. 7 Sockets, 4 Drive Tools. In Steel Case 16-649. Approximate weight, 3.45 lbs.

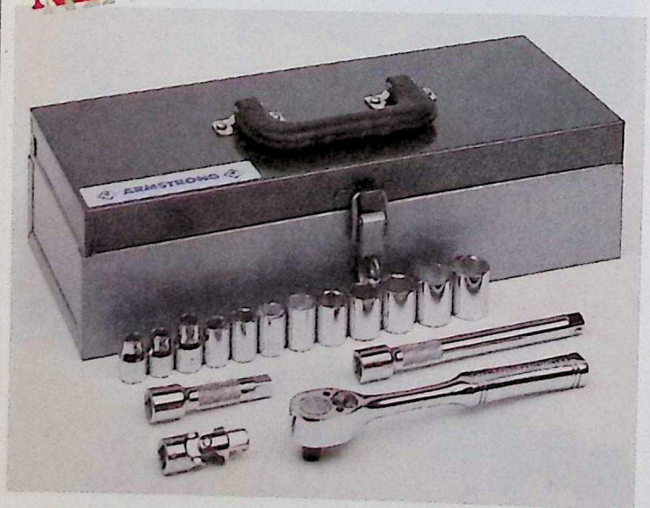
6-pt. Std. Length Sockets

Product Number	Opening, Inches
11-012	3/8"
11-014	7/16"
11-016	1/2"
11-018	9/16"
11-020	5/8"
11-022	11/16"
11-024	3/4"

Drive Tools:

Product Number	Description
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"

NEW!



3/8" Drive Set 43-252 METRIC

Contents: 16 tools. 12 Sockets, 4 Drive Tools. In Steel Case 16-621 Approximate weight, 6.21 lbs. (2,819 G).

6-pt. Std. Length Sockets

Product Number	Opening, mm
38-008	8mm
38-009	9mm
38-010	10mm
38-011	11mm
38-012	12mm
38-013	13mm
38-014	14mm
38-015	15mm
38-016	16mm
38-017	17mm
38-018	18mm
38-019	19mm

Drive Tools:

Product Number	Description
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"

Always wear eye protection when near tools in use

3/8" Drive Set 16-254

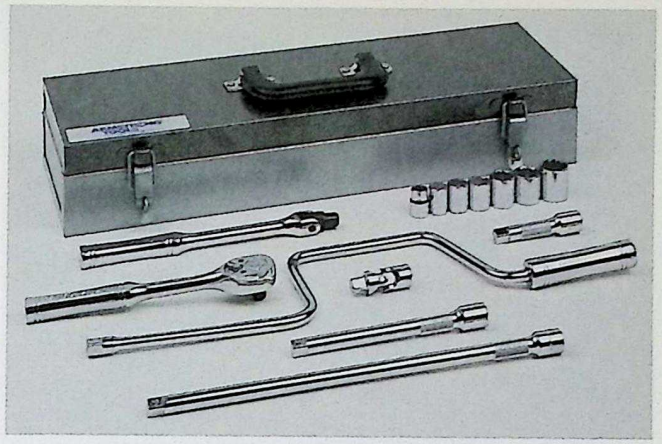
Contents: 14 tools. 7 Sockets, 7 Drive Tools. In Steel Case 16-613. Approximate weight, 8.28 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
11-112	3/8"
11-114	7/16"
11-116	1/2"
11-118	9/16"
11-120	5/8"
11-122	11/16"
11-124	3/4"

Drive Tools:

Product Number	Description
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-935	Speeder, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"



3/8" Drive Set 43-254 METRIC

NEW!

Contents: 16 tools. 12 Sockets, 4 Drive Tools. In Steel Case 16-621. Approximate weight, 6.73 lbs. (3,055 G).

12-pt. Std. Length Sockets

Product Number	Opening, mm
38-108	8mm
38-109	9mm
38-110	10mm
38-111	11mm
38-112	12mm
38-113	13mm
38-114	14mm
38-115	15mm
38-116	16mm
38-117	17mm
38-118	18mm
38-119	19mm

Drive Tools:

Product Number	Description
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"

3/8" Drive Set 43-256 METRIC

NEW!

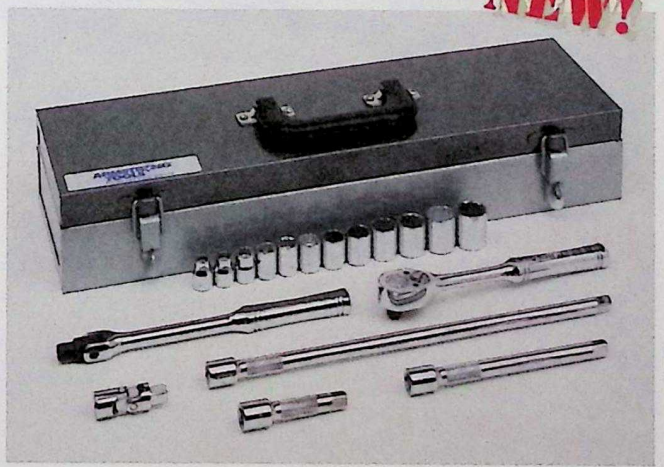
Contents: 18 tools. 12 Sockets, 6 Drive Tools. In Steel Case 16-613. Approximate weight, 7.67 lbs. (3,482 G).

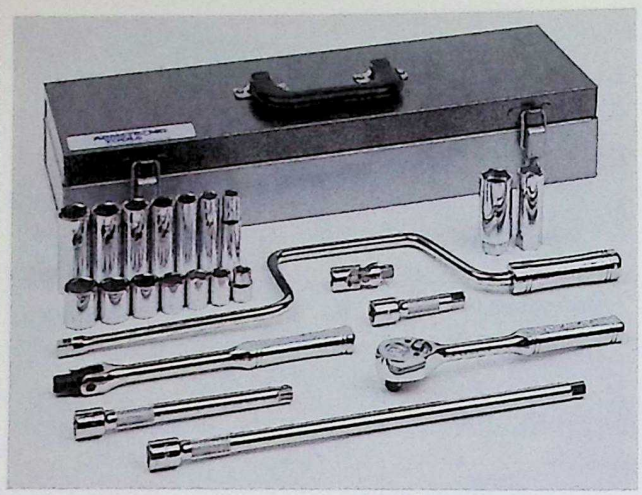
12-pt. Std. Length Sockets

Product Number	Opening, mm
38-108	8mm
38-109	9mm
38-110	10mm
38-111	11mm
38-112	12mm
38-113	13mm
38-114	14mm
38-115	15mm
38-116	16mm
38-117	17mm
38-118	18mm
38-119	19mm

Drive Tools:

Product Number	Description
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"





3/8" Drive Set 16-272

Contents: 23 tools. 16 Sockets, 7 Drive Tools. In Steel Case 16-613. Approximate weight, 9.89 lbs.

6-pt. Std. Sockets

Product Number	Opening, Inches
11-012	3/8"
11-014	7/16"
11-016	1/2"
11-018	9/16"
11-020	5/8"
11-022	11/16"
11-024	3/4"

6-pt. Deep Sockets

Product Number	Opening, Inches
11-212	3/8"
11-214	7/16"
11-216	1/2"
11-218	9/16"
11-220	5/8"
11-222	11/16"
11-224	3/4"

Spark Plug Sockets

Product Number	Opening, Inches
11-501	5/8"
11-504	13/16"

Drive Tools:

Product Number	Description
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-935	Speeder, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"

NEW!

3/8" Drive Set 43-272 METRIC

Contents: 30 tools. 24 Sockets, 6 Drive Tools. In Steel Case 16-613. Approximate weight, 9.53 lbs. (4,327 G).

12-pt. Std. Sockets

Product Number	Opening, mm
38-108	8mm
38-109	9mm
38-110	10mm
38-111	11mm
38-112	12mm
38-113	13mm
38-114	14mm
38-115	15mm
38-116	16mm
38-117	17mm
38-118	18mm
38-119	19mm

12-pt. Deep Sockets

Product Number	Opening, mm
38-308	8mm
38-309	9mm
38-310	10mm
38-311	11mm
38-312	12mm
38-313	13mm
38-314	14mm
38-315	15mm
38-316	16mm
38-317	17mm
38-318	18mm
38-319	19mm

Drive Tools:

Product Number	Description
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"

Always wear eye protection when near tools in use

3/8" Drive Set 16-278

Contents: 36 tools. 29 Sockets, 7 Drive Tools. In Steel Case 16-613. Approximate weight, 12.07 lbs.

12-pt. Std. Sockets

Product Number	Opening, Inches
11-108	1/4"
11-110	5/16"
11-112	3/8"
11-114	7/16"
11-116	1/2"
11-118	9/16"
11-120	5/8"
11-122	11/16"
11-124	3/4"
11-126	13/16"
11-128	7/8"

12-pt. Deep Sockets

Product Number	Opening, Inches
11-312	3/8"
11-314	7/16"
11-316	1/2"
11-318	9/16"
11-320	5/8"
11-322	11/16"
11-324	3/4"
11-326	13/16"
11-328	7/8"

Spark Plug Sockets

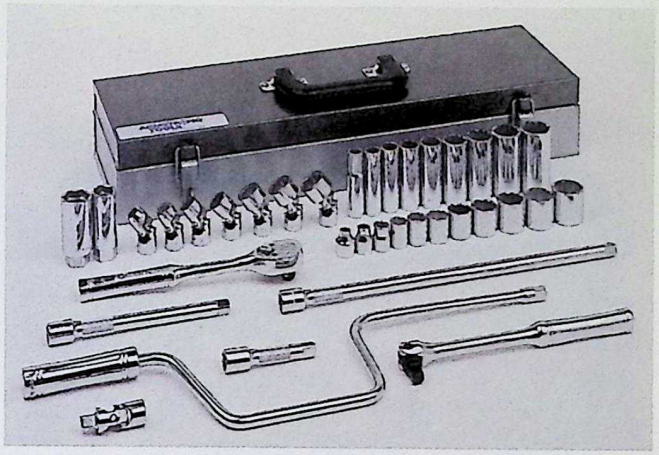
Product Number	Opening, Inches
11-501	5/8"
11-504	13/16"

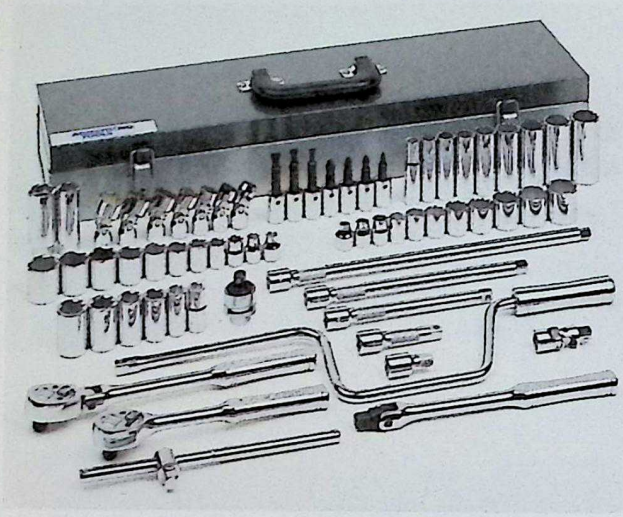
12-pt. Flex Sockets

Product Number	Opening, Inches
11-512	3/8"
11-514	7/16"
11-516	1/2"
11-518	9/16"
11-520	5/8"
11-522	11/16"
11-524	3/4"

Drive Tools:

Product Number	Opening, Inches
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-935	Speeder, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"





3/8" Drive Set 16-293

Contents: 65 tools. 53 Sockets, 12 Drive Tools. In Steel Case 16-615. Approximate weight, 17.89 lbs.

6-pt. Std. Sockets

Product Number	Opening, Inches
11-008	1/4"
11-010	5/16"
11-012	3/8"
11-014	7/16"
11-016	1/2"
11-018	9/16"
11-020	5/8"
11-022	11/16"
11-024	3/4"
11-026	13/16"
11-028	7/8"

12-pt. Std. Sockets

Product Number	Opening, Inches
11-108	1/4"
11-110	5/16"
11-112	3/8"
11-114	7/16"
11-116	1/2"
11-118	9/16"
11-120	5/8"
11-122	11/16"
11-124	3/4"
11-126	13/16"
11-128	7/8"

12-pt. Deep Sockets

Product Number	Opening, Inches
11-312	3/8"
11-314	7/16"
11-316	1/2"
11-318	9/16"
11-320	5/8"
11-322	11/16"
11-324	3/4"
11-326	13/16"
11-328	7/8"

8-pt. Sockets

Product Number	Opening, Inches
11-410	5/16"
11-412	3/8"
11-414	7/16"
11-416	1/2"
11-418	9/16"
11-420	5/8"

Spark Plug Sockets

Product Number	Opening, Inches
11-501	5/8"
11-504	13/16"

12-pt. Flex Sockets

Product Number	Opening, Inches
11-512	3/8"
11-514	7/16"
11-516	1/2"
11-518	9/16"
11-520	5/8"
11-522	11/16"
11-524	3/4"

Screwdriver Sockets

Product Number	Opening, Inches
11-802	1/4" x 1/32"
11-803	5/16" x 3/64"
11-805	3/8" x 1/16"
11-821	#1
11-822	#2
11-825	#3
11-828	#4

Drive Tools:

Product Number	Description
11-918	Hinge Handle, 3/8"Dr
11-921	Extension, 3/8"Dr, 1-1/2"
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8"Dr, 6"
11-925	Extension, 3/8"Dr, 8"
11-927	Extension, 3/8"Dr, 12"
11-935	Speeder, 3/8"Dr
11-938	T-Handle, 3/8"Dr
11-944	Ratchet Adapter, 3/8" Dr
11-947	Universal Joint, 3/8"Dr
11-972	Ratchet, 3/8"Dr, 7-3/8"
11-974	Ratchet, 3/8"Dr, Flex Head, 9-1/2"

Always wear eye protection when near tools in use.

3/8" Drive Set 43-293 METRIC

NEW!

Contents: 46 tools. 35 Sockets, 11 Drive Tools. In Steel Case 16-615. Approximate weight, 14.47 lbs. (6,569 G).

12-pt. Std. Sockets

Product Number	Opening, mm
38-106	6mm
38-107	7mm
38-108	8mm
38-109	9mm
38-110	10mm
38-111	11mm
38-112	12mm
38-113	13mm
38-114	14mm
38-115	15mm
38-116	16mm
38-117	17mm
38-118	18mm
38-119	19mm
38-120	20mm
38-121	21mm
38-122	22mm

12-pt. Deep Sockets

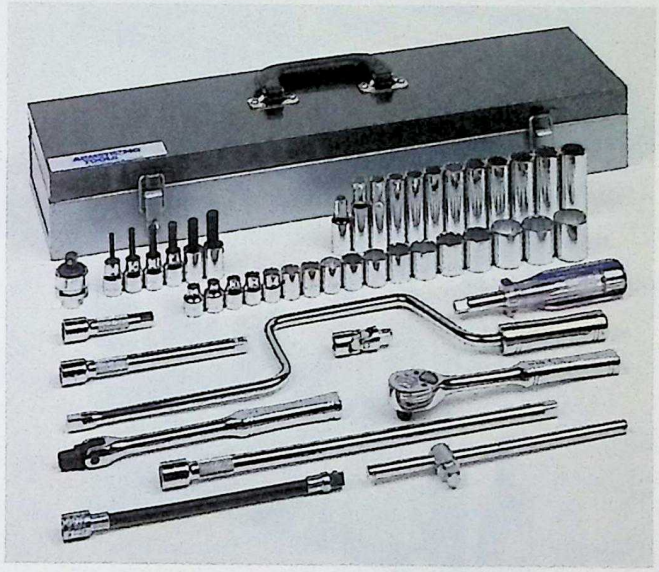
Product Number	Opening, mm
38-308	8mm
38-309	9mm
38-310	10mm
38-311	11mm
38-312	12mm
38-313	13mm
38-314	14mm
38-315	15mm
38-316	16mm
38-317	17mm
38-318	18mm
38-319	19mm

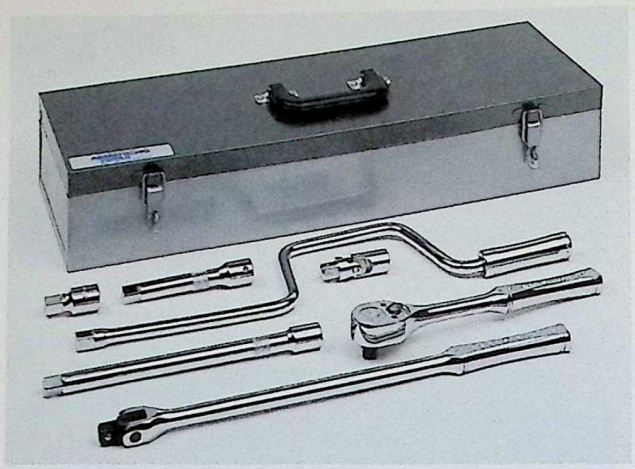
Hex Driver Sockets

Product Number	Opening, mm
38-707	4mm
38-709	5mm
38-711	6mm
38-712	7mm
38-713	8mm
38-715	10mm

Drive Tools:

Product Number	Description
11-918	Hinge Handle, 3/8"Dr
11-922	Extension, 3/8"Dr, 3"
11-923	Extension, 3/8"Dr, 6"
11-927	Extension, 3/8"Dr, 12"
11-929	Extension, 3/8"Dr, Flex, 7-1/4"
11-935	Speeder, 3/8"Dr
11-938	T-Handle, 3/8"Dr
11-943	Plastic Handle Driver, 3/8"Dr
11-944	Ratchet Adapter, 3/8"Dr
11-947	Universal Joint, 3/8"Dr
11-972	Ratchet, 3/8"Dr, 7-3/8"





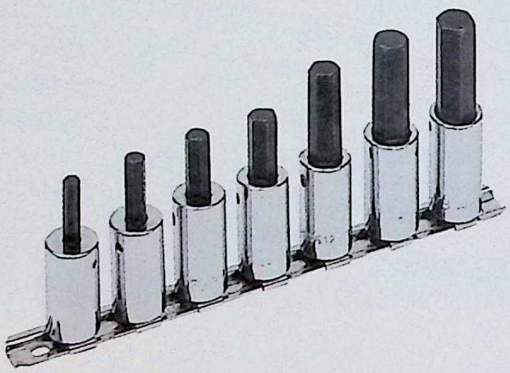
1/2" Drive Set 16-309

Contents: 7 Drive Tools. In Steel Case 16-629.
Approximate weight, 14.44 lbs.

This set, consisting of the most commonly-used Drive Tools, permits you to design your own set. Simply add any Standard Length Socket Set and/or any Deep Socket Set .

Drive Tools:

Product Number	Description
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2"Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-935	Speeder, 1/2" Dr
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"

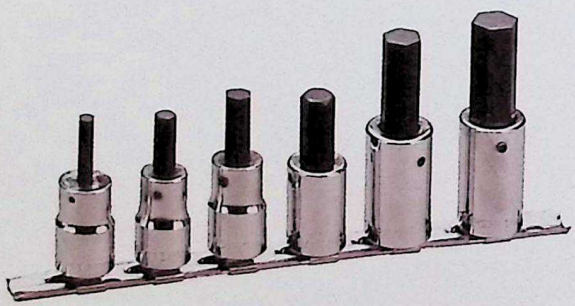


1/2" Drive Set 16-312

Contents: 7 Hex Drivers in cardboard box. Includes Socket Bar 16-831 and (7) Socket Clips 16-845. Approximate weight, 2.71 lbs.

Hex Driver Sockets with Std. Length Bits

Product Number	Opening, Inches	Product Number	Opening, Inches
12-713	1/4"	12-717	1/2"
12-714	5/16"	12-718	9/16"
12-715	3/8"	12-719	5/8"
12-716	7/16"		



1/2" Drive Set 43-312 METRIC

Contents: (6) Hex Drivers in cardboard box. Includes Socket Bar 16-831 and (6) Socket Clips 16-845. Approximate weight, 2.31 lbs. (1,048 G).

Hex Driver Sockets

Product Number	Opening, mm	Product Number	Opening, mm
39-711	6mm	39-717	12mm
39-713	8mm	39-719	14mm
39-715	10mm	39-722	17mm

1/2" Drive Set 16-314

Contents: 6 Hex Drivers in cardboard box. Includes Socket Bar 16-831 and (6) Socket Clips 16-845. Approximate weight, 2.67 lbs.

Hex Driver Sockets with Extra Long Bits

Product Number	Opening, Inches	Product Number	Opening, Inches
12-753	1/4"	12-757	1/2"
12-754	5/16"	12-758	9/16"
12-755	3/8"	12-759	5/8"

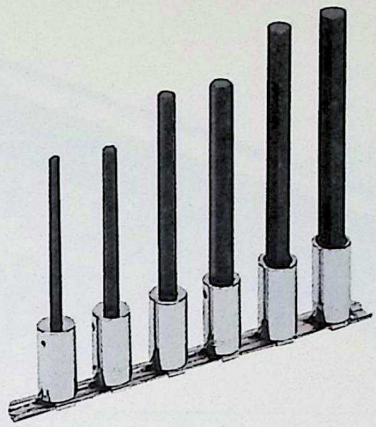
Always wear eye protection when near tools in use.

1/2" Drive Set 43-314 METRIC

Contents: 6 Hexdriver Sockets in cardboard box. Includes Socket Bar 16-831 and (6) Socket Clips 16-845. Approximate weight, 2.67 lbs. (1,212 G).

Hex Driver Sockets with Extra Long Bits

Product Number	Opening, mm	Product Number	Opening, mm
39-751	6mm	39-757	12mm
39-753	8mm	39-759	14mm
39-755	10mm	39-762	17mm



1/2" Drive Set 16-316

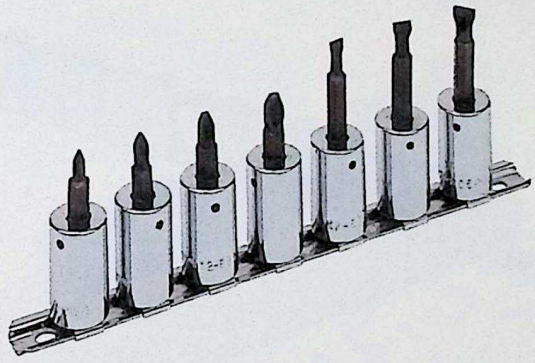
Contents: 7 Screwdriver Sockets in cardboard box. Includes Socket Bar 16-831 and (7) Socket Clips 16-845. Approximate weight 1.49 lbs.

Slotted Screwdriver Sockets

Product Number	Opening, Inches
12-802	1/4" x 1/32"
12-803	5/16" x 3/64"
12-805	3/8" x 1/16"

Phillips Screwdriver Sockets

Product Number	Opening, Inches
12-821	#1
12-822	#2
12-825	#3
12-828	#4

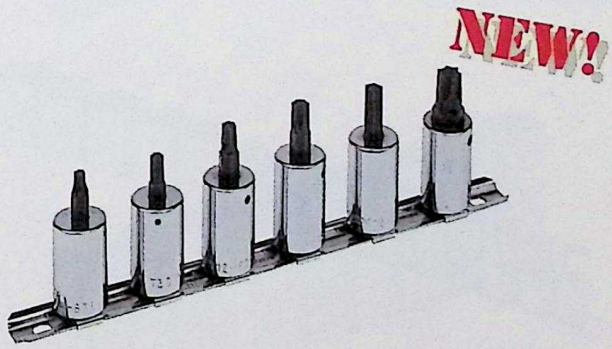


1/2" Drive Set 16-317

Contents: 6 Torx Drivers in cardboard box. Includes Socket Bar 16-831 and (6) Socket Clips 16-845. Approximate weight, 1.60 lbs.

Torx Driver Sockets

Product Number	Torx Size	Product Number	Torx Size
12-878	T27	12-884	T45
12-880	T30	12-886	T50
12-882	T40	12-888	T55

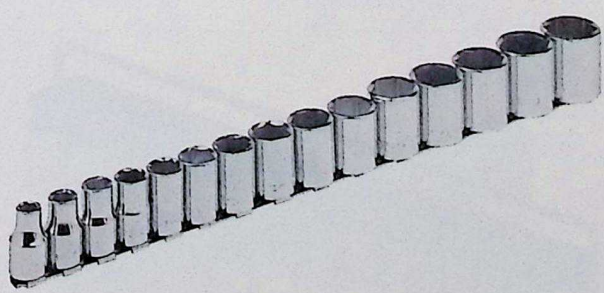


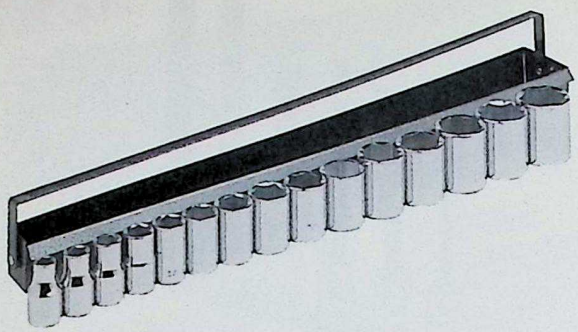
1/2" Drive Set 16-318

Contents: 15 Sockets in cardboard box. Includes Socket Bar 16-835 and (15) Socket Clips 16-845. Approximate weight, 5.73 lbs.

6-pt. Std. Length Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
12-012	3/8"	12-022	11/16"	12-032	1"
12-014	7/16"	12-024	3/4"	12-034	1-1/16"
12-016	1/2"	12-026	13/16"	12-036	1-1/8"
12-018	9/16"	12-028	7/8"	12-038	1-3/16"
12-020	5/8"	12-030	15/16"	12-040	1-1/4"





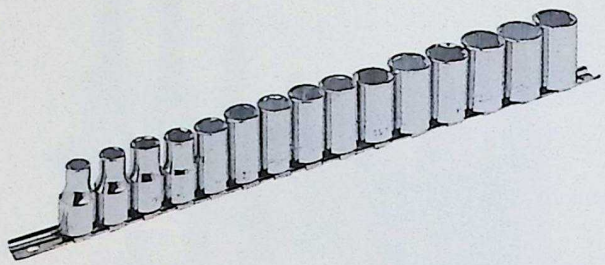
1/2" Drive Set 16-319

Contents: 15 Sockets in Tote Tray 16-695.
Approximate weight, 6.15 lbs.

6-pt. Std. Length Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
12-012	3/8"	12-022	11/16"	12-032	1"
12-014	7/16"	12-024	3/4"	12-034	1-1/16"
12-016	1/2"	12-026	13/16"	12-036	1-1/8"
12-018	9/16"	12-028	7/8"	12-038	1-3/16"
12-020	5/8"	12-030	15/16"	12-040	1-1/4"

NEW!

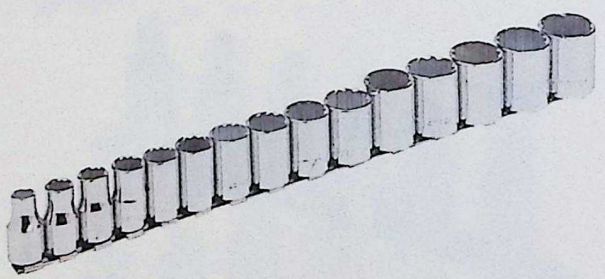


1/2" Drive Set 43-318 METRIC

Contents: 15 Sockets in cardboard box. Includes Socket Bar 16-835 and (15) Socket Clips 16-845.
Approximate weight, 3.70 lbs. (1,680 G).

6-pt. Std. Length Sockets

Product Number	Opening, mm	Product Number	Opening, mm	Product Number	Opening, mm
39-010	10mm	39-015	15mm	39-020	20mm
39-011	11mm	39-016	16mm	39-021	21mm
39-012	12mm	39-017	17mm	39-022	22mm
39-013	13mm	39-018	18mm	39-023	23mm
39-014	14mm	39-019	19mm	39-024	24mm

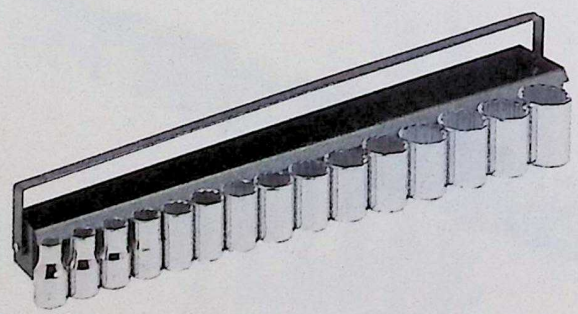


1/2" Drive Set 16-324

Contents: 15 Sockets in cardboard box. Includes Socket Bar 16-835 and (15) Socket Clips 16-845. Approximate weight, 5.38 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
12-112	3/8"	12-122	11/16"	12-132	1"
12-114	7/16"	12-124	3/4"	12-134	1-1/16"
12-116	1/2"	12-126	13/16"	12-136	1-1/8"
12-118	9/16"	12-128	7/8"	12-138	1-3/16"
12-120	5/8"	12-130	15/16"	12-140	1-1/4"



1/2" Drive Set 16-325

Contents: 15 Sockets in Tote Tray 16-695.
Approximate weight, 5.80 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
12-112	3/8"	12-122	11/16"	12-132	1"
12-114	7/16"	12-124	3/4"	12-134	1-1/16"
12-116	1/2"	12-126	13/16"	12-136	1-1/8"
12-118	9/16"	12-128	7/8"	12-138	1-3/16"
12-120	5/8"	12-130	15/16"	12-140	1-1/4"

Always wear eye protection when near tools in use.

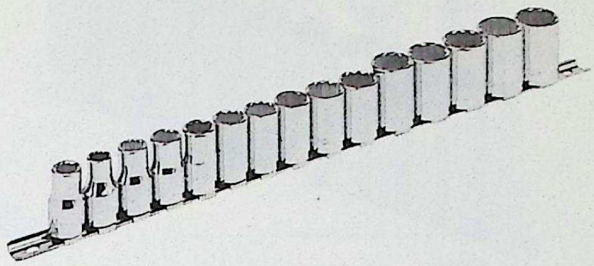
1/2" Drive Set 43-320 METRIC

NEW!

Contents: 15 Sockets in cardboard box. Includes Socket Bar 16-835 and (15) Socket Clips 16-845.
Approximate weight, 3.56 lbs. (1,616 G).

12-pt. Std. Length Sockets

Product Number	Opening, mm	Product Number	Opening, mm	Product Number	Opening, mm
39-110	10mm	39-115	15mm	39-120	20mm
39-111	11mm	39-116	16mm	39-121	21mm
39-112	12mm	39-117	17mm	39-122	22mm
39-113	13mm	39-118	18mm	39-123	23mm
39-114	14mm	39-119	19mm	39-124	24mm



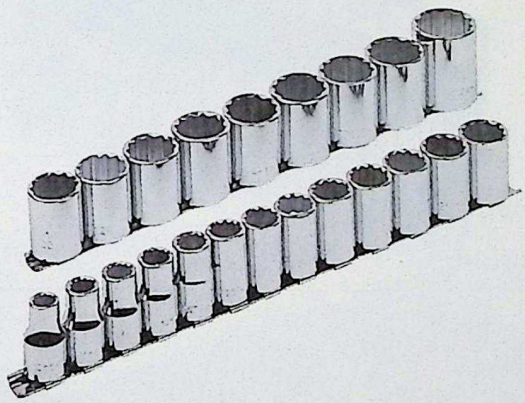
1/2" Drive Set 43-324 METRIC

NEW!

Contents: 22 Sockets in cardboard box. Includes 2 Sockets Bars 16-834 and (22) Socket Clips 16-845.
Approximate weight, 7.69 lbs. (3,491 G).

12-pt. Std. Length Sockets

Product Number	Opening, mm	Product Number	Opening, mm	Product Number	Opening, mm
39-110	10mm	39-118	18mm	39-126	26mm
39-111	11mm	39-119	19mm	39-127	27mm
39-112	12mm	39-120	20mm	39-128	28mm
39-113	13mm	39-121	21mm	39-129	29mm
39-114	14mm	39-122	22mm	39-130	30mm
39-115	15mm	39-123	23mm	39-132	32mm
39-116	16mm	39-124	24mm		
39-117	17mm	39-125	25mm		

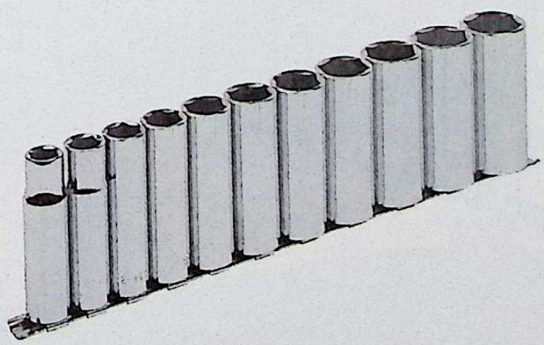


1/2" Drive Set 16-326

Contents: 11 Sockets in cardboard box. Includes Socket Bar 16-834 and (11) Socket Clips 16-845. Approximate weight, 5.93 lbs.

6-pt. Deep Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
12-216	1/2"	12-224	3/4"	12-232	1"
12-218	9/16"	12-226	13/16"	12-234	1-1/16"
12-220	5/8"	12-228	7/8"	12-236	1-1/8"
12-222	11/16"	12-230	15/16"		

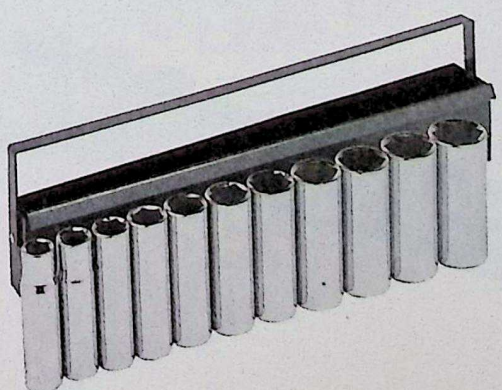


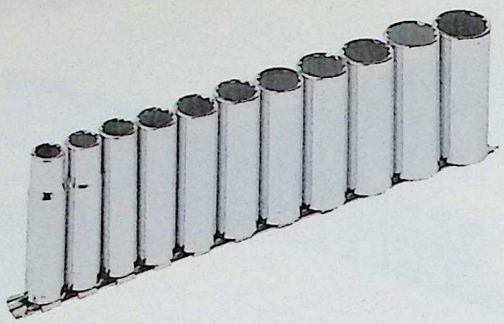
1/2" Drive Set 16-327

Contents: 11 Sockets in Tote Tray 16-691.
Approximate weight, 6.48 lbs.

6-pt. Deep Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
12-216	1/2"	12-224	3/4"	12-232	1"
12-218	9/16"	12-226	13/16"	12-234	1-1/16"
12-220	5/8"	12-228	7/8"	12-236	1-1/8"
12-222	11/16"	12-230	15/16"		



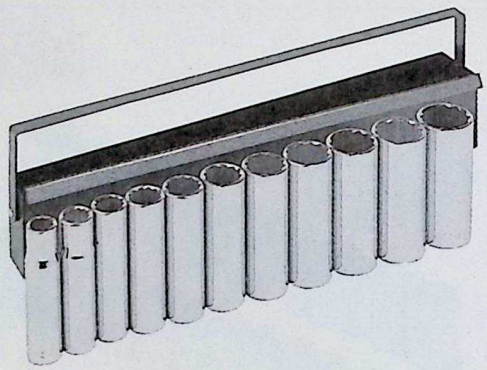


1/2" Drive Set 16-328

Contents: 11 Sockets in cardboard box. Includes Socket Bar 16-834 and (11) Socket Clips 16-845. Approximate weight, 5.67 lbs.

12-pt. Deep Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
12-316	1/2"	12-324	3/4"	12-332	1"
12-318	9/16"	12-326	13/16"	12-334	1-1/16"
12-320	5/8"	12-328	7/8"	12-336	1-1/8"
12-322	11/16"	12-330	15/16"		



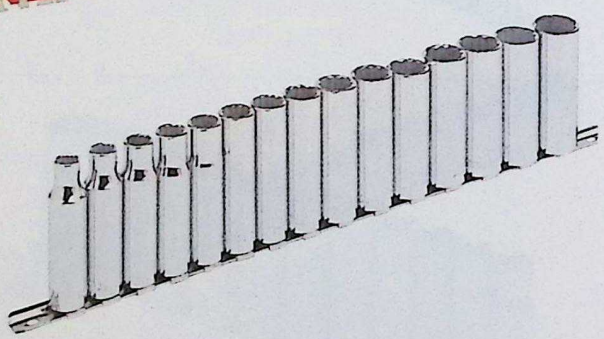
1/2" Drive Set 16-329

Contents: 11 Sockets in Tote Tray 16-691. Approximate weight, 6.22 lbs.

12-pt. Deep Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
12-316	1/2"	12-324	3/4"	12-332	1"
12-318	9/16"	12-326	13/16"	12-334	1-1/16"
12-320	5/8"	12-328	7/8"	12-336	1-1/8"
12-322	11/16"	12-330	15/16"		

NEW!

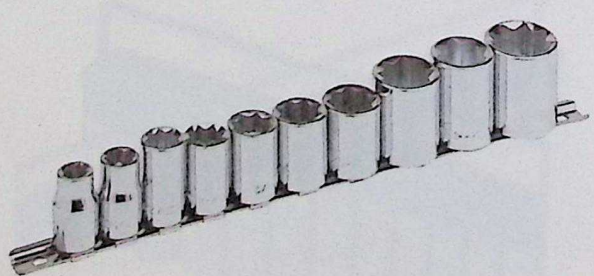


1/2" Drive Set 43-332 METRIC

Contents: 15 Sockets in cardboard box. Includes Socket Bar 16-835 and (15) Socket Clips 16-845. Approximate weight, 5.92 lbs. (2,688 G).

12-pt. Deep Sockets

Product Number	Opening, mm	Product Number	Opening, mm	Product Number	Opening, mm
39-310	10mm	39-315	15mm	39-320	20mm
39-311	11mm	39-316	16mm	39-321	21mm
39-312	12mm	39-317	17mm	39-322	22mm
39-313	13mm	39-318	18mm	39-323	23mm
39-314	14mm	39-319	19mm	39-324	24mm



1/2" Drive Set 16-331

Contents 10 Sockets in cardboard box. Includes Socket Bar 16-834 and (10) Socket Clips 16-845. Approximate weight, 3.61 lbs.

8-pt. Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
12-412	3/8"	12-420	5/8"	12-428	7/8"
12-414	7/16"	12-422	11/16"	12-432	1"
12-416	1/2"	12-424	3/4"		
12-418	9/16"	12-426	13/16"		

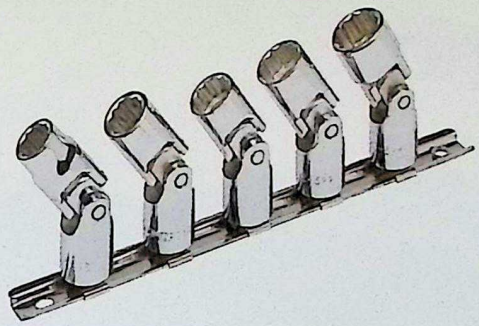
Always wear eye protection when near tools in use

1/2" Drive Set 16-334

Contents: 5 Sockets in cardboard box. Includes Socket Bar 16-831 and (5) Socket Clips 16-845. Approximate weight, 1.50 lbs.

12-pt. Flex Sockets

Product Number	Opening, Inches
12-516	1/2"
12-518	9/16"
12-520	5/8"
12-522	11/16"
12-524	3/4"

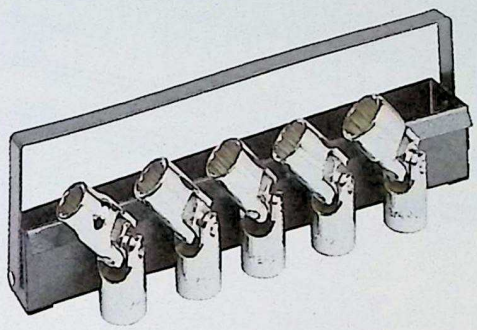


1/2" Drive Set 16-335

Contents: 5 Sockets In Tote Tray 16-685. Approximate weight, 1.82 lbs.

12-pt. Flex Sockets

Product Number	Opening, Inches
12-516	1/2"
12-518	9/16"
12-520	5/8"
12-522	11/16"
12-524	3/4"



1/2" Drive Set 16-340

NEW!

Contents: 15 Flare Nut Crowfoot Wrenches in cardboard box. Includes 2 Socket Bars 16-835 and (15) Socket Clips 16-845. Approximate weight, 4.80 lbs.

Flare Nut Crowfoot Wrenches

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
12-840	1-1/8"	12-845	1-7/16"	12-850	1-3/4"
12-841	1-3/16"	12-846	1-1/2"	12-851	1-13/16"
12-842	1-1/4"	12-847	1-9/16"	12-852	1-7/8"
12-843	1-5/16"	12-848	1-5/8"	12-853	1-15/16"
12-844	1-3/8"	12-849	1-11/16"	12-854	2"

1/2" Drive Set 16-352

Contents: 14 tools. 11 Sockets, 3 Drive Tools. In Steel Case 16-623. Approximate weight, 6.87 lbs.

6-pt. Std. Length Sockets

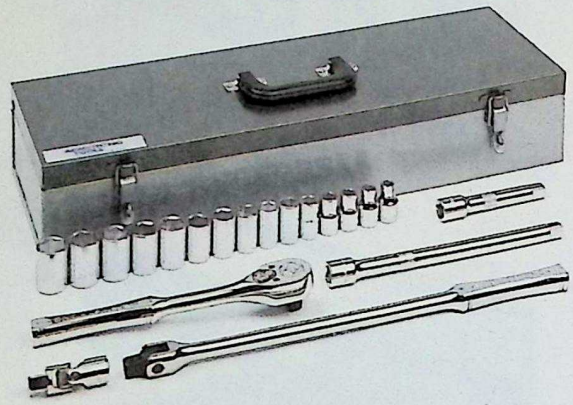
Product Number	Opening, Inches
12-012	3/8"
12-014	7/16"
12-016	1/2"
12-018	9/16"
12-020	5/8"
12-022	11/16"
12-024	3/4"
12-026	13/16"
12-028	7/8"
12-030	15/16"
12-032	1"

Drive Tools:

Product Number	Description
12-923	Extension, 1/2" Dr, 5"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"

Socket Sets

NEW!



1/2" Drive Set 43-352 METRIC

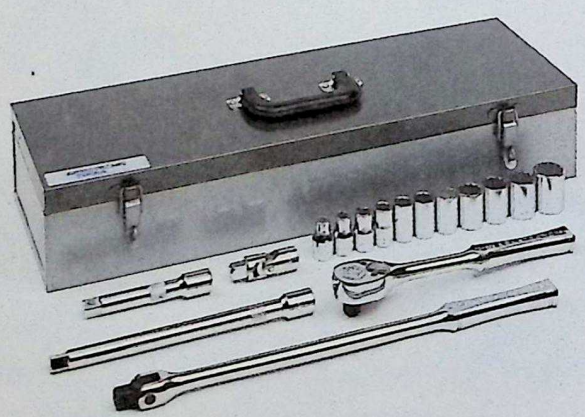
Contents: 20 tools. 15 Sockets, 5 Drive Tools. In Steel Case 16-629. Approximate weight, 15.24 lbs. (6,919 G)

6-pt. Std. Length Sockets

Product Number	Opening, mm
39-010	10mm
39-011	11mm
39-012	12mm
39-013	13mm
39-014	14mm
39-015	15mm
39-016	16mm
39-017	17mm
39-018	18mm
39-019	19mm
39-020	20mm
39-021	21mm
39-022	22mm
39-023	23mm
39-024	24mm

Drive Tools:

Product Number	Description
12-918	Hinge Handle, 1/2" Dr, 17"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"



1/2" Drive Set 16-354

Contents: 16 tools. 11 Sockets, 5 Drive Tools. In Steel Case 16-629. Approximate weight, 11.46 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
12-112	3/8"
12-114	7/16"
12-116	1/2"
12-118	9/16"
12-120	5/8"
12-122	11/16"
12-124	3/4"
12-126	13/16"
12-128	7/8"
12-130	15/16"
12-132	1"

Drive Tools:

Product Number	Description
12-918	Hinge Handle, 1/2" Dr, 17"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"

Always wear eye protection when near tools in use

1/2" Drive Set 43-354 METRIC

NEW!

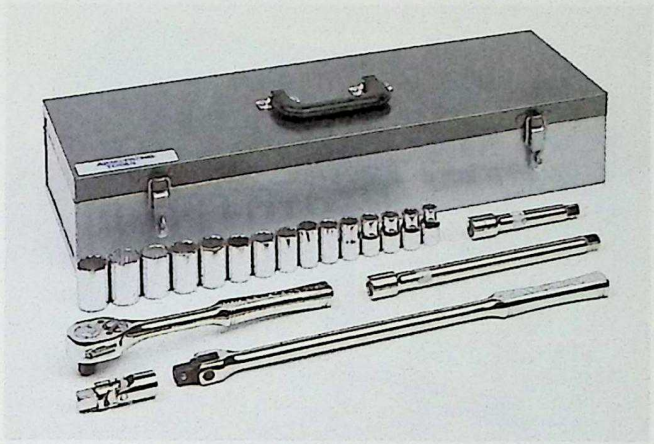
Contents: 20 tools. 15 Sockets, 5 Drive Tools. In Steel Case 16-629. Approximate weight, 15.04 lbs. (6,828 G).

12-pt. Std. Length Sockets

Product Number	Opening, mm
39-110	10mm
39-111	11mm
39-112	12mm
39-113	13mm
39-114	14mm
39-115	15mm
39-116	16mm
39-117	17mm
39-118	18mm
39-119	19mm
39-120	20mm
39-121	21mm
39-122	22mm
39-123	23mm
39-124	24mm

Drive Tools:

Product Number	Description
12-918	Hinge Handle, 1/2" Dr, 17"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"



1/2" Drive Set 16-356

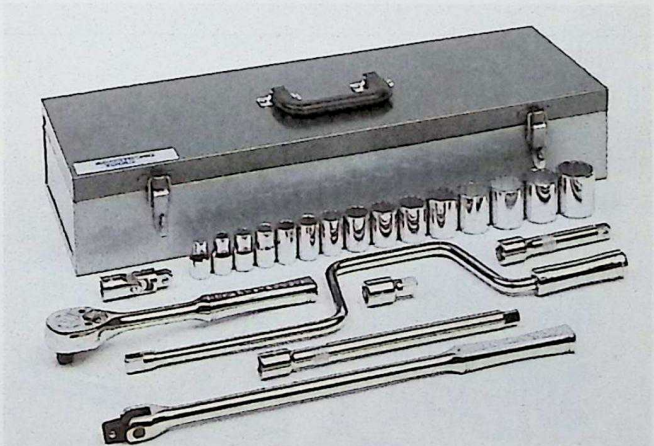
Contents: 22 tools. 15 Sockets, 7 Drive Tools. In Steel Case 16-629. Approximate weight, 19.08 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
12-112	3/8"
12-114	7/16"
12-116	1/2"
12-118	9/16"
12-120	5/8"
12-122	11/16"
12-124	3/4"
12-126	13/16"
12-128	7/8"
12-130	15/16"
12-132	1"
12-134	1-1/16"
12-136	1-1/8"
12-138	1-3/16"
12-140	1-1/4"

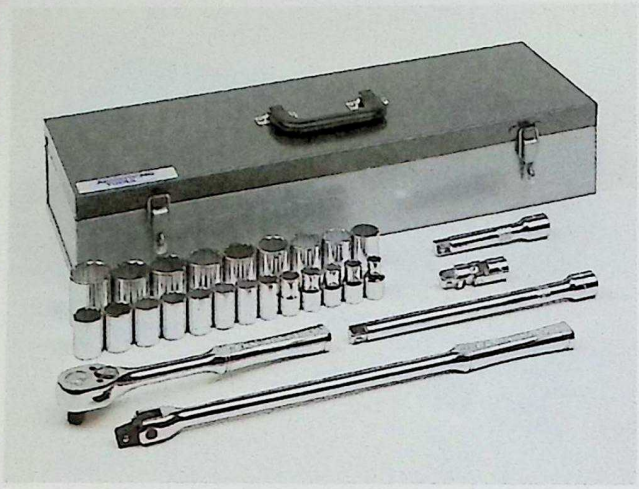
Drive Tools:

Product Number	Description
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-935	Speeder, 1/2" Dr
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"



Socket Sets

NEW!



1/2" Drive Set 43-356 METRIC

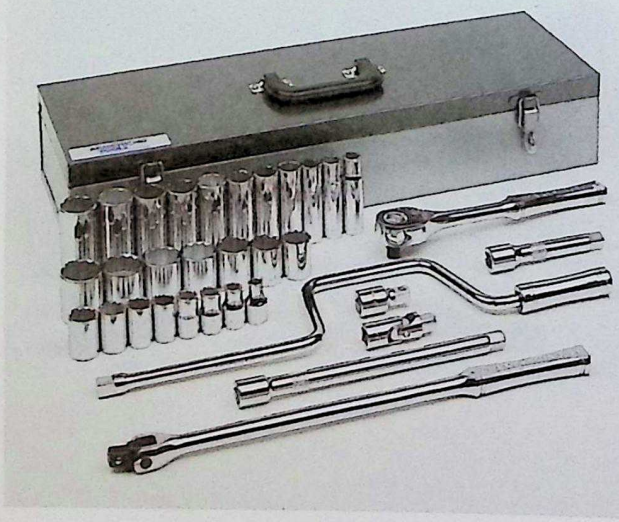
Contents: 27 tools. 22 Sockets, 5 Drive Tools. In Steel Case 16-629. Approximate weight, 18.79 lbs. (8.52 KG).

12-pt. Std. Length Sockets

Product Number	Opening, mm
39-110	10mm
39-111	11mm
39-112	12mm
39-113	13mm
39-114	14mm
39-115	15mm
39-116	16mm
39-117	17mm
39-118	18mm
39-119	19mm
39-120	20mm
39-121	21mm
39-122	22mm
39-123	23mm
39-124	24mm
39-125	25mm
39-126	26mm
39-127	27mm
39-128	28mm
39-129	29mm
39-130	30mm
39-132	32mm

Drive Tools:

Product Number	Description
12-918	Hinge Handle, 1/2" Dr, 17"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"



1/2" Drive Set 16-376

Contents: 33 tools. 26 Sockets, 7 Drive Tools. In Steel Case 16-629. Approximate weight, 24.47 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
12-112	3/8"
12-114	7/16"
12-116	1/2"
12-118	9/16"
12-120	5/8"
12-122	11/16"
12-124	3/4"
12-126	13/16"
12-128	7/8"
12-130	15/16"
12-132	1"
12-134	1-1/16"
12-136	1-1/8"
12-138	1-3/16"
12-140	1-1/4"

12-pt. Deep Sockets

Product Number	Opening, Inches
12-316	1/2"
12-318	9/16"
12-320	5/8"
12-322	11/16"
12-324	3/4"
12-326	13/16"
12-328	7/8"
12-330	15/16"
12-332	1"
12-334	1-1/16"
12-336	1-1/8"

Drive Tools:

Product Number	Description
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-935	Speeder, 1/2" Dr
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"

Always wear eye protection when near tools in use

1/2" Drive Set 43-376 METRIC

NEW!

Contents: 36 tools. 30 Sockets, 6 Drive Tools. In Steel Case 16-629. Approximate weight, 20.46 lbs. (9.28 KG).

12-pt. Std. Length Sockets

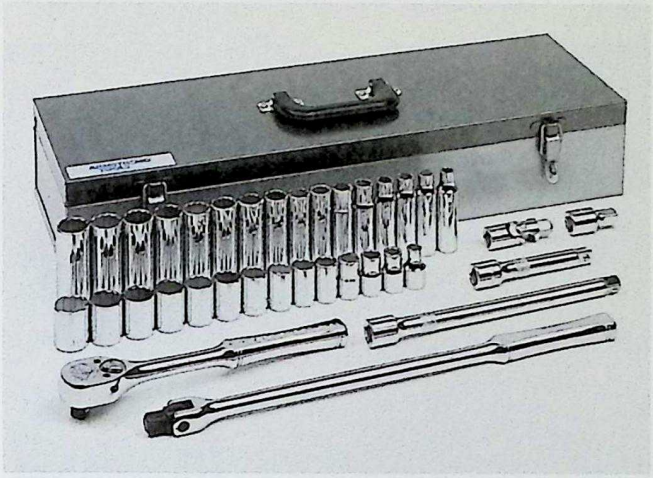
Product Number	Opening, mm
39-110	10mm
39-111	11mm
39-112	12mm
39-113	13mm
39-114	14mm
39-115	15mm
39-116	16mm
39-117	17mm
39-118	18mm
39-119	19mm
39-120	20mm
39-121	21mm
39-122	22mm
39-123	23mm
39-124	24mm

12-pt. Deep Sockets

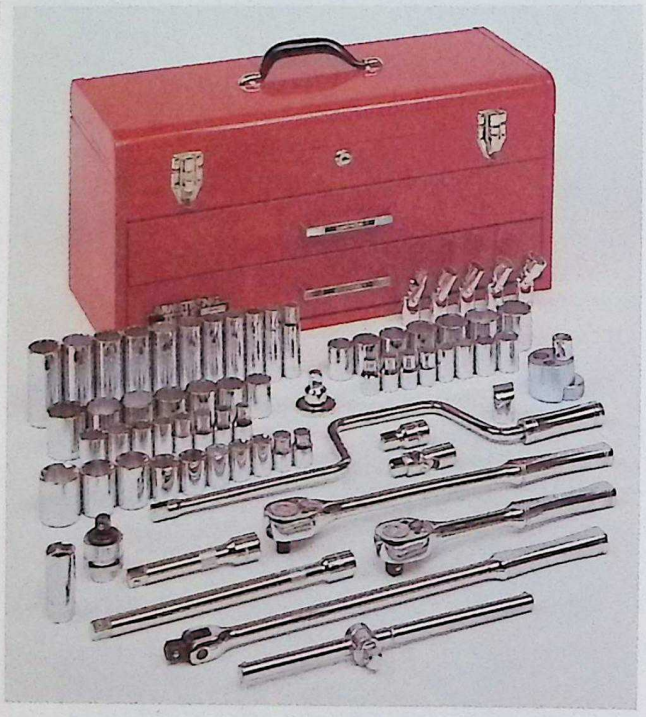
Product Number	Opening, mm
39-310	10mm
39-311	11mm
39-312	12mm
39-313	13mm
39-314	14mm
39-315	15mm
39-316	16mm
39-317	17mm
39-318	18mm
39-319	19mm
39-320	20mm
39-321	21mm
39-322	22mm
39-323	23mm
39-324	24mm

Drive Tools:

Product Number	Description
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"



Socket Sets



1/2" Drive Set 16-393

Contents: 70 tools. 58 Sockets, 12 Drive Tools. In Steel Chest 16-719. Approximate weight, 51.02 lbs.

6-pt. Std. Length Sockets

Product Number	Opening, Inches
12-012	3/8"
12-014	7/16"
12-016	1/2"
12-018	9/16"
12-020	5/8"
12-022	11/16"
12-024	3/4"
12-026	13/16"
12-028	7/8"
12-030	15/16"
12-032	1"
12-034	1-1/16"
12-036	1-1/8"
12-038	1-3/16"
12-040	1-1/4"

12-pt. Std. Length Sockets

Product Number	Opening, Inches
12-112	3/8"
12-114	7/16"
12-116	1/2"
12-118	9/16"
12-120	5/8"
12-122	11/16"
12-124	3/4"
12-126	13/16"
12-128	7/8"
12-130	15/16"
12-132	1"
12-134	1-1/16"
12-136	1-1/8"
12-138	1-3/16"
12-140	1-1/4"

12-pt. Deep Sockets

Product Number	Opening, Inches
12-316	1/2"
12-318	9/16"
12-320	5/8"
12-322	11/16"
12-324	3/4"
12-326	13/16"
12-328	7/8"
12-330	15/16"
12-332	1"
12-334	1-1/16"
12-336	1-1/8"

8-pt. Sockets

Product Number	Opening, Inches
12-412	3/8"
12-414	7/16"
12-416	1/2"
12-418	9/16"
12-420	5/8"
12-422	11/16"
12-424	3/4"
12-426	13/16"
12-428	7/8"
12-432	1"

Spark Plug Socket

Product Number	Opening, Inches
12-504	13/16"

12-pt. Flex Sockets

Product Number	Opening, Inches
12-516	1/2"
12-518	9/16"
12-520	5/8"
12-522	11/16"
12-524	3/4"

Drag Link Socket

Product Number	Opening, Inches
12-892	7/64 x 15/16"

Drive Tools:

Product Number	Description
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-935	Speeder, 1/2" Dr
12-938	T-Handle, 1/2" Dr
12-944	Ratchet Adapter, 1/2" Dr
12-945	Ratchet Spinner, 1/2" Dr
12-947	Universal Joint, 1/2" Dr
12-948	Stud Remover, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
12-973	Ratchet, 1/2" Dr, 15"

Always wear eye protection when near tools in use

1/2" Drive Set 43-393 METRIC

NEW!

Contents: 51 tools. 43 Sockets, 8 Drive Tools. In Steel Case 16-651, with Tote Tray 16-653. Approximate weight, 39.91 lbs. (18.10 KG).

12-pt. Std. Length Sockets

Product Number	Opening, mm
39-110	10mm
39-111	11mm
39-112	12mm
39-113	13mm
39-114	14mm
39-115	15mm
39-116	16mm
39-117	17mm
39-118	18mm
39-119	19mm
39-120	20mm
39-121	21mm
39-122	22mm
39-123	23mm
39-124	24mm
39-125	25mm
39-126	26mm
39-127	27mm
39-128	28mm
39-129	29mm
39-130	30mm
39-132	32mm

Hex Driver Sockets

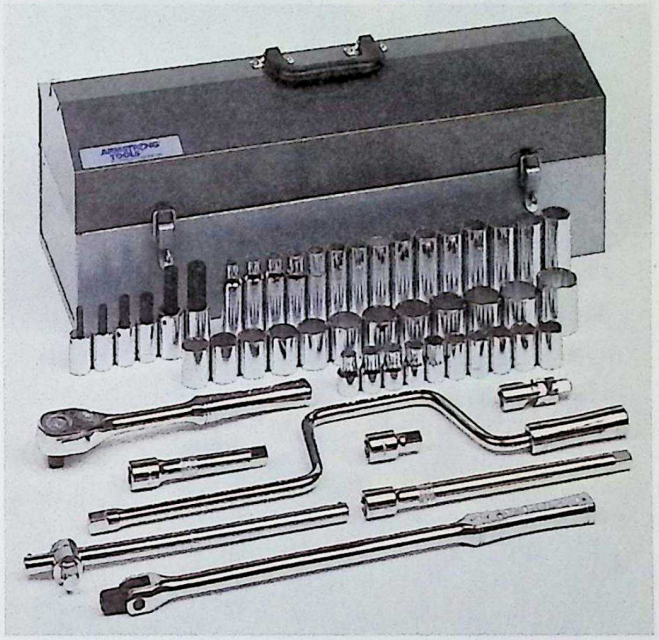
Product Number	Opening, mm
39-711	6mm
39-713	8mm
39-715	10mm
39-717	12mm
39-719	14mm
39-722	17mm

12-pt. Deep

Product Number	Opening, mm
39-310	10mm
39-311	11mm
39-312	12mm
39-313	13mm
39-314	14mm
39-315	15mm
39-316	16mm
39-317	17mm
39-318	18mm
39-319	19mm
39-320	20mm
39-321	21mm
39-322	22mm
39-323	23mm
39-324	24mm

Drive Tools:

Product Number	Description
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-935	Speeder, 1/2" Dr
12-938	T-Handle, 1/2" Dr
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"



3/4" Drive

3/4" Drive Set 16-424

Contents; 16 Sockets in cardboard box. Includes (2) Socket Bars 16-835 and (16) Socket Clips 16-847. Approximate weight, 20.64 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
13-128	7/8"
13-130	15/16"
13-132	1"
13-134	1-1/16"
13-136	1-1/8"
13-140	1-1/4"

Product Number	Opening, Inches
13-142	1-5/16"
13-144	1-3/8"
13-146	1-7/16"
13-148	1-1/2"
13-152	1-5/8"
13-154	1-11/16"

Product Number	Opening, Inches
13-156	1-3/4"
13-158	1-13/16"
13-160	1-7/8"
13-164	2"

Socket Sets

NEW!!

3/4" Drive Set 43-424 METRIC

Contents: 17 Sockets in cardboard box. Includes (2) Socket Bars 16-835 and (17) Socket Clips 16-847. Approximate weight, 18.34 lbs. (8.32 KG).

12-pt. Std. Length Sockets

Product Number	Opening, mm	Product Number	Opening, mm	Product Number	Opening, mm
40-122	22mm	40-128	28mm	40-138	38mm
40-123	23mm	40-129	29mm	40-141	41mm
40-124	24mm	40-130	30mm	40-142	42mm
40-125	25mm	40-132	32mm	40-146	46mm
40-126	26mm	40-135	35mm	40-150	50mm
40-127	27mm	40-136	36mm		

3/4" Drive Set 16-428

Contents: 11 Sockets in cardboard box. Includes Socket Bars 16-831 and 16-832 and (11) Socket Clips 16-847. Approximate weight, 14.56 lbs.

12-pt. Deep Sockets

Product Number	Opening, Inches	Product Number	Opening, Inches	Product Number	Opening, Inches
13-328	7/8"	13-336	1-1/8"	13-346	1-7/16"
13-330	15/16"	13-340	1-1/4"	13-348	1-1/2"
13-332	1"	13-342	1-5/16"	13-352	1-5/8"
13-334	1-1/16"	13-344	1-3/8"		

NEW!

3/4" Drive Set 43-428 METRIC

Contents: 12 Sockets in cardboard box. Includes Socket Bar 16-832, Socket Bar 16-834, and (12) Socket Clips 16-847. Approximate weight, 21.13 lbs. (9.58 KG).

12-pt. Deep Sockets

Product Number	Opening, mm	Product Number	Opening, mm	Product Number	Opening, mm
40-322	22mm	40-330	30mm	40-338	38mm
40-323	23mm	40-332	32mm	40-341	41mm
40-324	24mm	40-335	35mm	40-346	46mm
40-327	27mm	40-336	36mm	40-350	50mm

Always wear eye protection when near tools in use

3/4" Drive Set 16-454

Contents: 20 tools. 16 Sockets, 4 Drive Tools. In Steel Case 16-641. Approximate weight, 51.98 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
13-128	7/8"
13-130	15/16"
13-132	1"
13-134	1-1/16"
13-136	1-1/8"
13-140	1-1/4"
13-142	1-5/16"
13-144	1-3/8"
13-146	1-7/16"
13-148	1-1/2"
13-152	1-5/8"
13-154	1-11/16"
13-156	1-3/4"
13-158	1-13/16"
13-160	1-7/8"
13-164	2"

Drive Tools:

Product Number	Description
13-906	Ratchet, 3/4" Dr, 19
13-918	Hinge Handle, 3/4" Dr, 22"
13-923	Extension, 3/4" Dr, 8"
13-925	Extension, 3/4" Dr, 16"

3/4" Drive Set 43-454 METRIC

NEW!

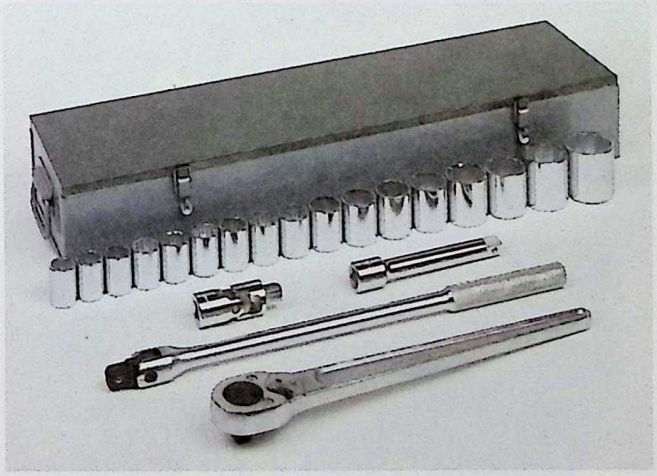
Contents: 21 tools. 17 Sockets, 4 Drive Tools. In Steel Case 16-641. Approximate weight, 47.87 lbs. (21.71 KG).

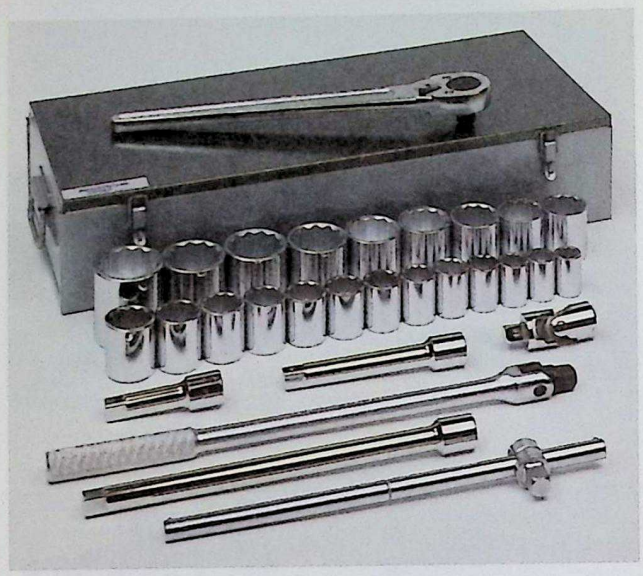
12-pt. Std. Length Sockets

Product Number	Opening, mm
40-122	22mm
40-123	23mm
40-124	24mm
40-125	25mm
40-126	26mm
40-127	27mm
40-128	28mm
40-129	29mm
40-130	30mm
40-132	32mm
40-135	35mm
40-136	36mm
40-138	38mm
40-141	41mm
40-142	42mm
40-146	46mm
40-150	50mm

Drive Tools:

Product Number	Description
13-906	Ratchet, 3/4" Dr, 19
13-918	Hinge Handle, 3/4" Dr, 22"
13-923	Extension, 3/4" Dr, 8"
13-947	Universal Joint, 3/4" Dr





3/4" Drive Set 16-456

Contents: 29 tools. 22 Sockets, 7 Drive Tools. In Steel Case 16-657. Approximate weight, 74.21 lbs.

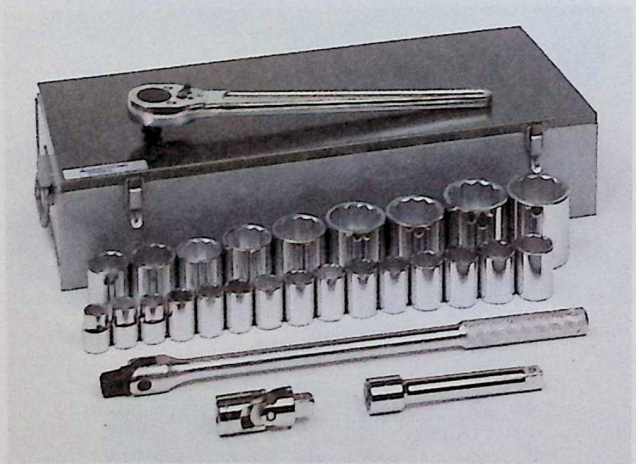
12-pt. Std. Length Sockets

Product Number	Opening, Inches
13-128	7/8"
13-130	15/16"
13-132	1"
13-134	1-1/16"
13-136	1-1/8"
13-138	1-3/16"
13-140	1-1/4"
13-142	1-5/16"
13-144	1-3/8"
13-146	1-7/16"
13-148	1-1/2"
13-150	1-9/16"
13-152	1-5/8"
13-154	1-11/16"
13-156	1-3/4"
13-158	1-13/16"
13-160	1-7/8"
13-164	2"
13-168	2-1/8"
13-170	2-3/16"
13-172	2-1/4"
13-176	2-3/8"

Drive Tools:

Product Number	Description
13-906	Ratchet, 3/4" Dr, 19
13-918	Hinge Handle, 3/4" Dr, 22"
13-922	Extension, 3/4" Dr, 5"
13-923	Extension, 3/4" Dr, 8"
13-925	Extension, 3/4" Dr, 16"
13-938	T-Handle, 3/4" Dr
13-947	Universal Joint, 3/4" Dr

NEW!



3/4" Drive Set 43-456 METRIC

Contents: 28 tools. 24 Sockets, 4 Drive Tools. In Steel Case 16-657. Approximate weight, 64.06 lbs. (29.05 KG)

12-pt. Std. Length Sockets

Product Number	Opening, mm
40-119	19mm
40-120	20mm
40-121	21mm
40-122	22mm
40-123	23mm
40-124	24mm
40-125	25mm
40-126	26mm
40-127	27mm
40-128	28mm
40-129	29mm
40-130	30mm
40-132	32mm
40-135	35mm
40-136	36mm
40-138	38mm
40-141	41mm
40-142	42mm
40-146	46mm
40-150	50mm
40-154	54mm
40-155	55mm
40-158	58mm
40-160	60mm

Drive Tools:

Product Number	Description
13-906	Ratchet, 3/4" Dr, 19
13-918	Hinge Handle, 3/4" Dr, 22"
13-923	Extension, 3/4" Dr, 8"
13-947	Universal Joint, 3/4" Dr

Always wear eye protection when

3/4" Drive Set 16-478

Contents: 44 tools. 37 Sockets, 7 Drive Tools. In Steel Case 16-657. Approximate weight, 92.62 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
13-124	3/4"
13-126	13/16"
13-128	7/8"
13-130	15/16"
13-132	1"
13-134	1-1/16"
13-136	1-1/8"
13-138	1-3/16"
13-140	1-1/4"
13-142	1-5/16"
13-144	1-3/8"
13-146	1-7/16"
13-148	1-1/2"
13-150	1-9/16"
13-152	1-5/8"
13-154	1-11/16"
13-156	1-3/4"
13-158	1-13/16"
13-160	1-7/8"
13-164	2"
13-166	2-1/16"
13-168	2-1/8"
13-170	2-3/16"
13-172	2-1/4"
13-174	2-5/16"
13-176	2-3/8"

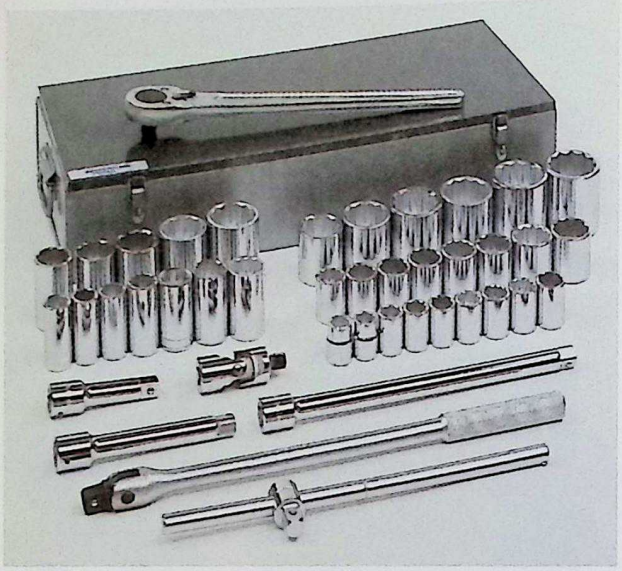
12-pt. Deep Sockets

Product Number	Opening, Inches
13-328	7/8"
13-330	15/16"
13-332	1"
13-334	1-1/16"
13-336	1-1/8"
13-340	1-1/4"
13-342	1-5/16"
13-344	1-3/8"
13-346	1-7/16"
13-348	1-1/2"
13-352	1-5/8"

Drive Tools:

Product Number	Description
13-906	Ratchet, 3/4" Dr, 19"
13-918	Hinge Handle, 3/4" Dr, 22"
13-922	Extension, 3/4" Dr, 5"
13-923	Extension, 3/4" Dr, 8"
13-925	Extension, 3/4" Dr, 16"
13-938	T-Handle, 3/4" Dr
13-947	Universal Joint, 3/4" Dr

NEW!



3/4" Drive Set 43-478 METRIC

Contents: 43 tools. 36 Sockets, 7 Drive Tools. In Steel Case 16-657. Approximate weight, 90.82 lbs. (41.19 KG).

12-pt. Std. Length Sockets

Product Number	Opening, mm
40-119	19mm
40-120	20mm
40-121	21mm
40-122	22mm
40-123	23mm
40-124	24mm
40-125	25mm
40-126	26mm
40-127	27mm
40-128	28mm
40-129	29mm
40-130	30mm
40-132	32mm
40-135	35mm
40-136	36mm
40-138	38mm
40-141	41mm
40-142	42mm
40-146	46mm
40-150	50mm
40-154	54mm
40-155	55mm
40-158	58mm
40-160	60mm

12-pt. Deep Sockets

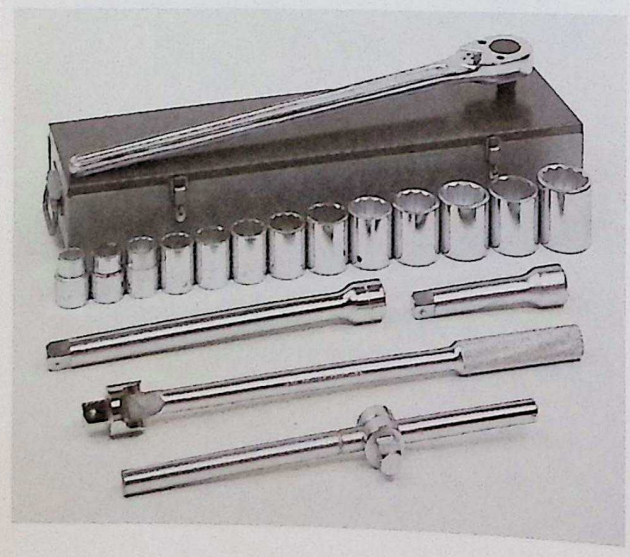
Product Number	Opening, mm
40-322	22mm
40-323	23mm
40-324	24mm
40-327	27mm
40-330	30mm
40-332	32mm
40-335	35mm
40-336	36mm
40-338	38mm
40-341	41mm
40-346	46mm
40-350	50mm

Drive Tools:

Product Number	Description
13-906	Ratchet, 3/4" Dr, 19"
13-918	Hinge Handle, 3/4" Dr, 22"
13-922	Extension, 3/4" Dr, 5"
13-923	Extension, 3/4" Dr, 8"
13-925	Extension, 3/4" Dr, 16"
13-938	T-Handle, 3/4" Dr
13-947	Universal Joint, 3/4" Dr

Socket Sets

1" Drive



1" Drive Set 16-554

Contents: 19 tools. 13 Sockets, 6 Drive Tools. In Steel Case 16-641. Approximate weight, 80.05 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
14-134	1-1/16"
14-136	1-1/8"
14-140	1-1/4"
14-142	1-5/16"
14-146	1-7/16"
14-148	1-1/2"
14-152	1-5/8"
14-158	1-13/16"
14-160	1-7/8"
14-164	2"
14-170	2-3/16"
14-172	2-1/4"
14-176	2-3/8"

Drive Tools:

Product Number	Description
14-906	Ratchet, 1" Dr, 30"
14-918	Hinge Handle, 1" Dr, 27"
14-924	Extension, 1" Dr, 9"
14-926	Extension, 1" Dr, 18"
14-939	Sliding Handle, 1" Dr
14-940	Adapter for 14-939

Always wear eye

1" Drive Set 16-556

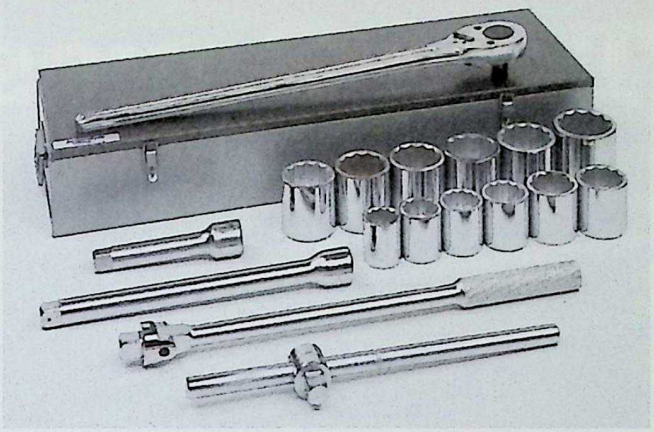
Contents: 18 tools. 12 Sockets, 6 Drive Tools. In Steel Case 16-659. Approximate weight, 108.49 lbs.

12-pt. Std. Length Sockets

Product Number	Opening, Inches
14-152	1-5/8"
14-158	1-13/16"
14-160	1-7/8"
14-164	2"
14-170	2-3/16"
14-172	2-1/4"
14-176	2-3/8"
14-180	2-1/2"
14-182	2-9/16"
14-184	2-5/8"
14-188	2-3/4"
14-194	2-15/16"

Drive Tools:

Product Number	Description
14-906	Ratchet, 1" Dr, 30"
14-918	Hinge Handle, 1" Dr, 27"
14-924	Extension, 1" Dr, 9"
14-926	Extension, 1" Dr, 18"
14-939	Sliding Handle, 1" Dr
14-940	Adapter for 14-939



1" Drive Set 16-578

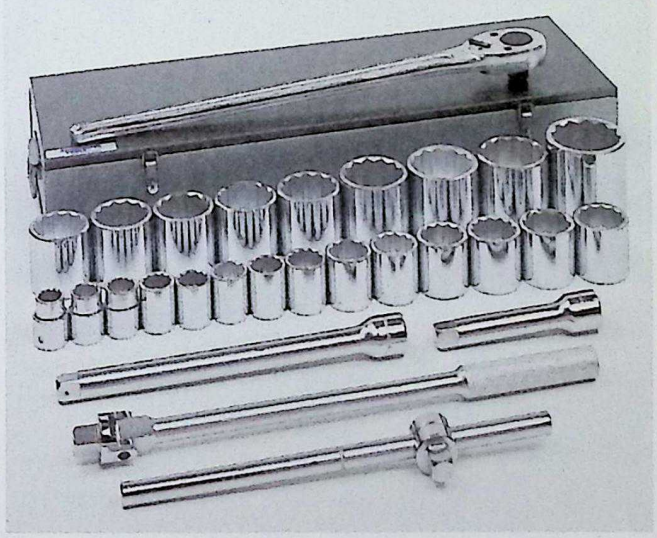
Contents: 29 tools. 23 Sockets, 6 Drive Tools. In Steel Case 16-659. Approximate weight, 148.11 lbs.

12-pt. Std. Length Sockets

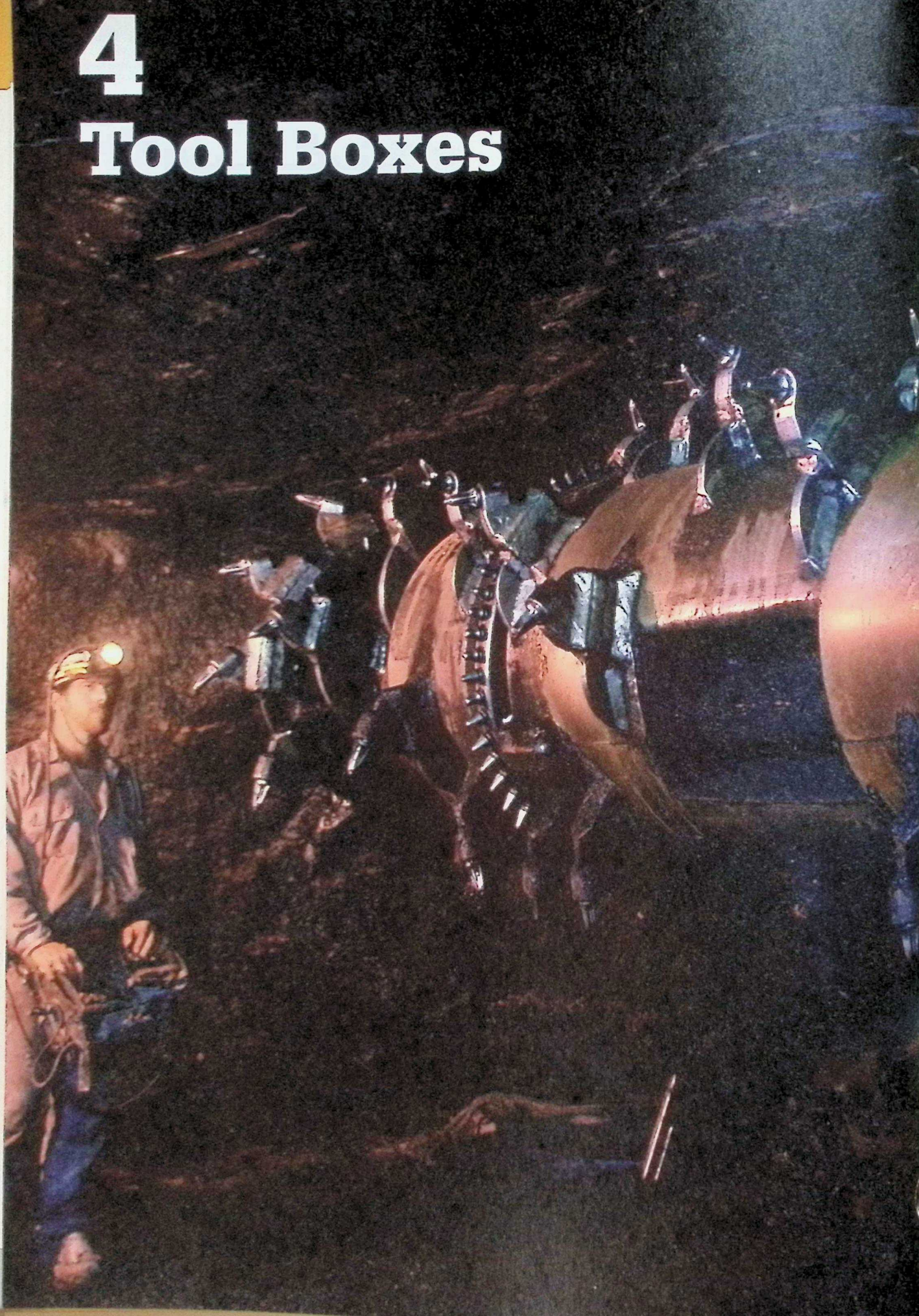
Product Number	Opening, Inches
14-134	1-1/16"
14-136	1-1/8"
14-140	1-1/4"
14-142	1-5/16"
14-144	1-3/8"
14-146	1-7/16"
14-148	1-1/2"
14-152	1-5/8"
14-158	1-13/16"
14-160	1-7/8"
14-164	2"
14-168	2-1/8"
14-170	2-3/16"
14-172	2-1/4"
14-176	2-3/8"
14-180	2-1/2"
14-182	2-9/16"
14-184	2-5/8"
14-188	2-3/4"
14-194	2-15/16"
14-196	3"
14-200	3-1/8"
14-212	3-1/2"

Drive Tools:

Product Number	Description
14-906	Ratchet, 1" Dr, 30"
14-918	Hinge Handle, 1" Dr, 27"
14-924	Extension, 1" Dr, 9"
14-926	Extension, 1" Dr, 18"
14-939	Sliding Handle, 1" Dr
14-940	Adapter for 14-939

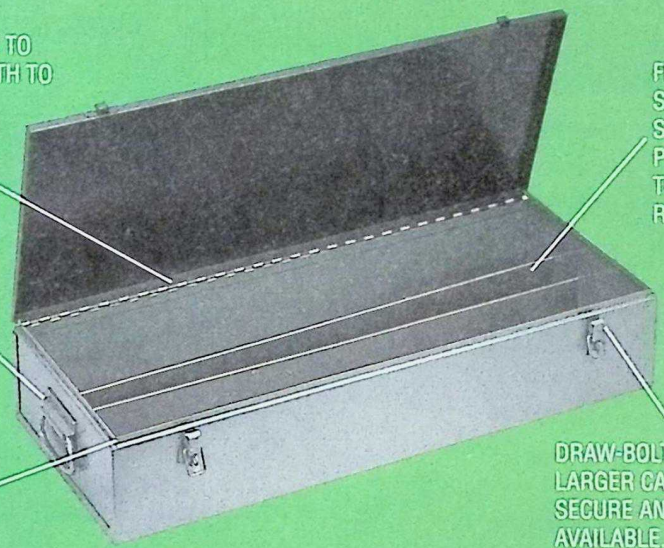


4
Tool Boxes



Tool Boxes

Constructed from heavy gauge sheet steel, Armstrong Tool Boxes, Cases, Chests and Cabinets have the strength and durability to provide years of service. All seams and joints are generously spot-welded, producing a bond as strong as the steel itself. And all tool storage products have an industrial baked-on enamel finish.



FULL-LENGTH PIANO HINGES WELDED TO CASE LID AND BOTTOM, ADD STRENGTH TO OVERALL ASSEMBLY.

FITTED INTERIORS SIMPLIFY TOOL SELECTION AND PREVENT LOOSE TOOLS FROM ROLLING ABOUT.

WELDED STEEL HANDLES ON LARGER CASES HAVE POSITIVE STOPS TO PREVENT RAISING HANDLES BEYOND 90° ANGLE.

DOUBLE THICKNESS ROLLED EDGES ARE STRONG AND LESS LIKELY TO BE DENTED OR KNOCKED OUT OF ALIGNMENT DURING USE.

DRAW-BOLT CLASPS ON OUR LARGER CASES ARE THE MOST SECURE AND RELIABLE TYPE AVAILABLE.

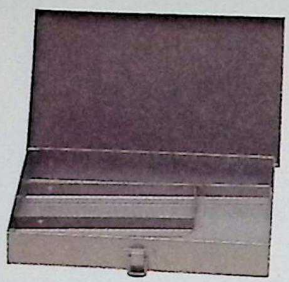
ROLLERBEARING DRAWER SLIDES, A STANDARD FEATURE ON ALL SUPER-PREMIUM CHESTS AND CABINETS, PERMIT SMOOTH, EASY OPENING AND CLOSING OF DRAWERS.

FLUSH-TO-FRONT DRAWERS INCREASE DRAWER CAPACITY WITHOUT CHANGING DRAWER WIDTH. FULL-LENGTH DRAWER PULLS ON SUPER-PREMIUM CHESTS AND CABINETS SPEED OPERATION.

HEAVY-DUTY CASTERS ROLL EASILY EVEN WHEN THE DRAWERS ARE OVERLOADED.

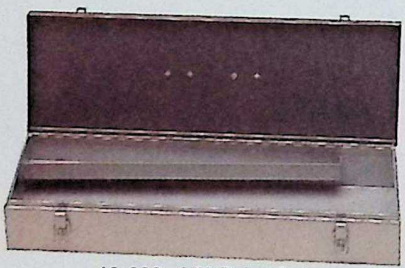
EXTRA-DEEP BOTTOM DRAWERS ON CABINETS—OVER 6"—PROVIDE PLENTY OF STORAGE ROOM FOR POWER TOOLS, HARD HATS AND OTHER BULKY ITEMS.

ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS



16-604, 1/4" Drive Set

16-613, 3/8" Drive Sets



16-629, 1/2" Drive Sets

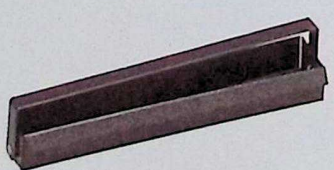
Steel Cases and Tote Trays

Product Number	Length, Inches	Width, Inches	Height, Inches	Used for these Tool Sets	Weight Pounds
16-601	6-1/2	3-1/2	1-1/4	16-152, 16-158, 43-152	.86
16-604	10	5-5/8	1-1/2	16-023, 16-109, 16-159, 16-172, 16-174, 43-158, 43-172	1.96
16-606	17	5-5/8	1-1/4	16-193, 43-193	2.61
16-613	17	5-1/4	3	16-209, 16-254, 16-272, 16-278, 43-256, 43-267, 43-272	4.60
16-615	21-1/2	5-5/8	3-1/8	16-293, 43-293	6.21
16-621	14	5-3/4	3	16-080, 43-252, 43-254	4.05
16-623	17-1/2	3-1/4	2-1/8	16-352	2.48
16-629	23	7-1/2	4-1/8	16-023, 16-309, 16-354, 16-356, 16-376, 43-352, 43-354, 43-356, 43-376	7.43
16-635	23	7-1/2	4-1/8	—	7.76
16-641	31-1/4	8	5	16-454, 16-554, 43-454	18.52
16-649	11	4	1-1/2	16-065, 16-252, 43-070, 43-075	1.71
16-651	22-3/4	8-5/8	8-3/8	16-045, 16-053, 16-055, 43-055, 43-393	15.21
16-653*	22-1/2	8-1/2	3	16-045, 16-053, 16-055, 43-055, 43-075, 43-393	2.97
16-657	27-1/2	11-1/2	5-1/2	16-456, 16-478, 43-456, 43-478	19.59
16-659	35	11-1/2	5-1/2	16-556, 16-578	24.94
16-681	9	1-5/8	1-3/4	16-023, 16-221, 16-225, 19-892, 20-890	.47
16-685	9-1/2	1-1/2	3-1/2	16-023, 16-045, 16-227, 16-229, 16-235, 16-335, 19-896	.56
16-691	14-1/4	1-3/4	3-1/2	16-327, 16-329, 20-896	1.09
16-695	19	2-1/4	2-1/4	16-319, 16-325, 20-892	1.16

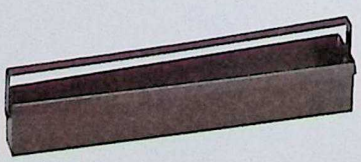
*Tote Tray for 16-651 Steel Case. Sold separately.

16-651 with 16-653, Multi-Drive and 1/2" Drive Sets

16-657, 3/4" Drive Sets



16-681, 3/8" Drive Sets



16-691, 1/2" Drive Sets

Always wear eye protection when near tools in use

Steel Chest–2 Drawer

Product Number 16-719 Total capacity: 1590 cu. in.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
22	8-3/4	10-1/2	16-393	19
Drawer Dimensions			2 Drawers: 19-7/8 x 8 x 2-3/4	

Steel Chest–3 Drawer

Product Number 16-721 Total capacity: 2030 cu. in.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
22	8-3/4	13-1/2	—	24
Drawer Dimensions			3 Drawers: 19-7/8 x 8 x 2-3/4	

Steel Chest–6 Drawer

Product Number 16-722 Total capacity: 3490 cu. in.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
26-1/8	13	16	16-008, 16-016 16-035, 43-053	62
Drawer Dimensions			3 Drawers: 7 x 12-3/8 x 1-7/8 1 Drawer: 23-1/2 x 12-3/8 x 3-7/8 2 Drawers: 23-1/2 x 12-3/8 x 1-7/8	

Steel Chest–10 Drawer

Product Number 16-724 Total capacity: 4536 cu. in.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
26-1/8	13	20-1/4	16-009, 16-017 43-009, 43-017	82
Drawer Dimensions			6 Drawers: 7 x 12-3/8 x 1-7/8 1 Drawer: 7 x 12-3/8 x 6-1/8 2 Drawers: 23-1/2 x 12-3/8 x 1-7/8 1 Drawer: 23-1/2 x 12-3/8 x 3-7/8	

Intermediate Steel Chest–3 Drawer

Product Number 16-726 Total capacity: 2220 cu. in.

Used as an extra capacity base with another chest on top. Will accommodate Armstrong Steel Chests 16-720,16-722 or 16-724.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
26-3/8	13-3/8	11-5/16	—	35
Drawer Dimensions			2 Drawers: 23-1/2 x 12-3/8 x 1-7/8 1 Drawer: 23-1/2 x 12-3/8 x 3-7/8	

Steel Roller Cabinet-3 Drawer

Product Number 16-740 Total capacity: 9,647 cu. in.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
26-3/4	17-1/8	33-3/8	—	94

Drawer Dimensions
2 Drawers: 21-5/8 x 16-3/4 x 2-7/8
1 Drawer: 21-5/8 x 16-3/4 x 5-7/8
1 Compartment: 26-1/2 x 16-3/4 x 12-1/4

Steel Roller Cabinet-7 Drawer

Product Number 16-743 Total capacity: 11,507 cu. in.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
26-3/4	18	42-9/16	—	158

Drawer Dimensions
5 Drawers: 22-1/4 x 17-1/16 x 2-5/16
1 Drawer: 22-1/4 x 17-1/16 x 9-7/16
1 Drawer: 22-1/4 x 17-1/16 x 6-3/16

Steel Roller Cabinet-7 Drawer

Product Number 16-744 Total capacity: 11,648 cu. in.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
26-3/4	17-1/8	39-5/8	16-023	120

Drawer Dimensions
2 Drawers: 10-1/4 x 16-3/4 x 1-7/8
2 Drawers: 21-5/8 x 16-3/4 x 1-7/8
2 Drawers: 21-5/8 x 16-3/4 x 2-7/8
1 Drawer: 21-5/8 x 16-3/4 x 5-7/8
1 Compartment: 26-1/2 x 16-3/4 x 12-1/4

Always wear eye protection when near tools in

Mobile Workbench-5 Drawer

Product Number 16-750 Total capacity: 37,500 cu. in.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
48	23	36	—	396

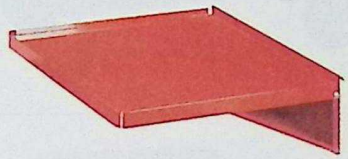
Drawers Dimensions
3 Drawers: 22-1/4 x 17-1/16 x 2-15/16
1 Drawer: 22-1/4 x 17-1/16 x 6-3/16
1 Drawer: 22-1/4 x 17-1/16 x 9-7/16

Steel Side Shelf

Product Number 16-755

Can be used with any Roller Cabinet or Workbench, 16-740 through 16-750. Folds for storage.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
15-1/8	17-1/8	1-1/16	—	3.7



Steel Side-Rider-2 Drawer

Product Number 16-757 Total capacity: 4,278 cu. in.

Can be used with any Roller Cabinet or Workbench, 16-740 through 16-750.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
14-5/8	14-5/8	26	—	38

Drawer Dimensions
2 Drawers: 11 x 12-3/8 x 1-7/8
1 Compartment: 14-3/8 x 14-1/2 x 5-1/2
1 Compartment: 14-3/8 x 14-1/2 x 13-1/2

Steel Chest-10 Drawer

Product Number 16-760 Total capacity: 8,211 cu. in.

This chest features heavy duty rollerbearing Drawer Slides.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
33	17-3/4	21-7/16	16-010, 16-018, 16-030	164

Drawer Dimensions
6 Drawers: 9-3/16 x 17-1/2 x 1-7/16
1 Drawer: 6-3/16 x 17-1/2 x 5-1/16
2 Drawers: 28-1/16 x 17-1/2 x 2-3/8
1 Drawer: 28-1/16 x 17-1/2 x 4-3/4

Steel Roller Cabinet-8 Drawer

Product Number 16-762 Total capacity: 13,378 cu. in.

This roller cabinet features heavy duty rollerbearing Drawer Slides.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
33-1/2	18	42-3/4	16-010, 16-018, 16-030	251

Drawer Dimensions
2 Drawers: 28-1/16 x 17-1/2 x 2-3/8
3 Drawers: 28-1/16 x 17-1/2 x 2-3/4
2 Drawers: 28-1/16 x 17-1/2 x 3-3/4
1 Drawer: 28-1/16 x 17-1/2 x 6-3/4

Steel Side-Rider-3 Drawer

Product Number 16-781 Total capacity: 6,162 cu. in.

For use with Roller Cabinet 16-762.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
14	18	32-3/8	—	65

Drawer Dimensions
3 Drawers: 10-5/8 x 15-1/2 x 1-3/8
1 Compartment: 13-5/8 x 17-1/8 x 6-1/4
1 Compartment: 13-5/8 x 17-1/8 x 16-1/4

Steel Side-Rider-8 Drawer

Product Number 16-783 Total capacity: 5,847 cu. in.

For use with Roller Cabinet 16-762. This side-rider features heavy duty rollerbearing Drawer Slides.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
17-3/4	18	36-1/8	—	155

Drawer Dimensions
2 Drawers: 12-5/16 x 17-1/2 x 2-3/8
3 Drawers: 12-5/16 x 17-1/2 x 2-3/4
2 Drawers: 12-5/16 x 17-1/2 x 3-3/4
1 Drawer: 12-5/16 x 17-1/2 x 6-3/4

"MegaWide" Steel Roller Cabinet-11 Drawer

Product Number 16-770 Total capacity: 28,711 cu. in.

This roller cabinet features heavy duty rollerbearing Drawer Slides, and 6" needlebearing casters with grease fittings.

Length Inches	Width Inches	Height Inches	Used With these Sets	Weight, Pounds
54-1/2	25-1/2	43-1/4	—	540

Drawer Dimensions

1 Drawer: 34-9/16 x 24-7/8 x 3-1/16
3 Drawers: 34-9/16 x 24-7/8 x 3-9/16
1 Drawer: 34-9/16 x 24-7/8 x 4-9/16
1 Drawer: 49 x 24-7/8 x 6-1/4
2 Drawers: 11-3/16 x 24-7/8 x 2-1/4
1 Drawer: 11-3/16 x 24-7/8 x 3-1/4
1 Drawer: 11-3/16 x 24-7/8 x 3-3/4
1 Drawer: 11-3/16 x 24-7/8 x 7-7/8

Socket Bars and Clips

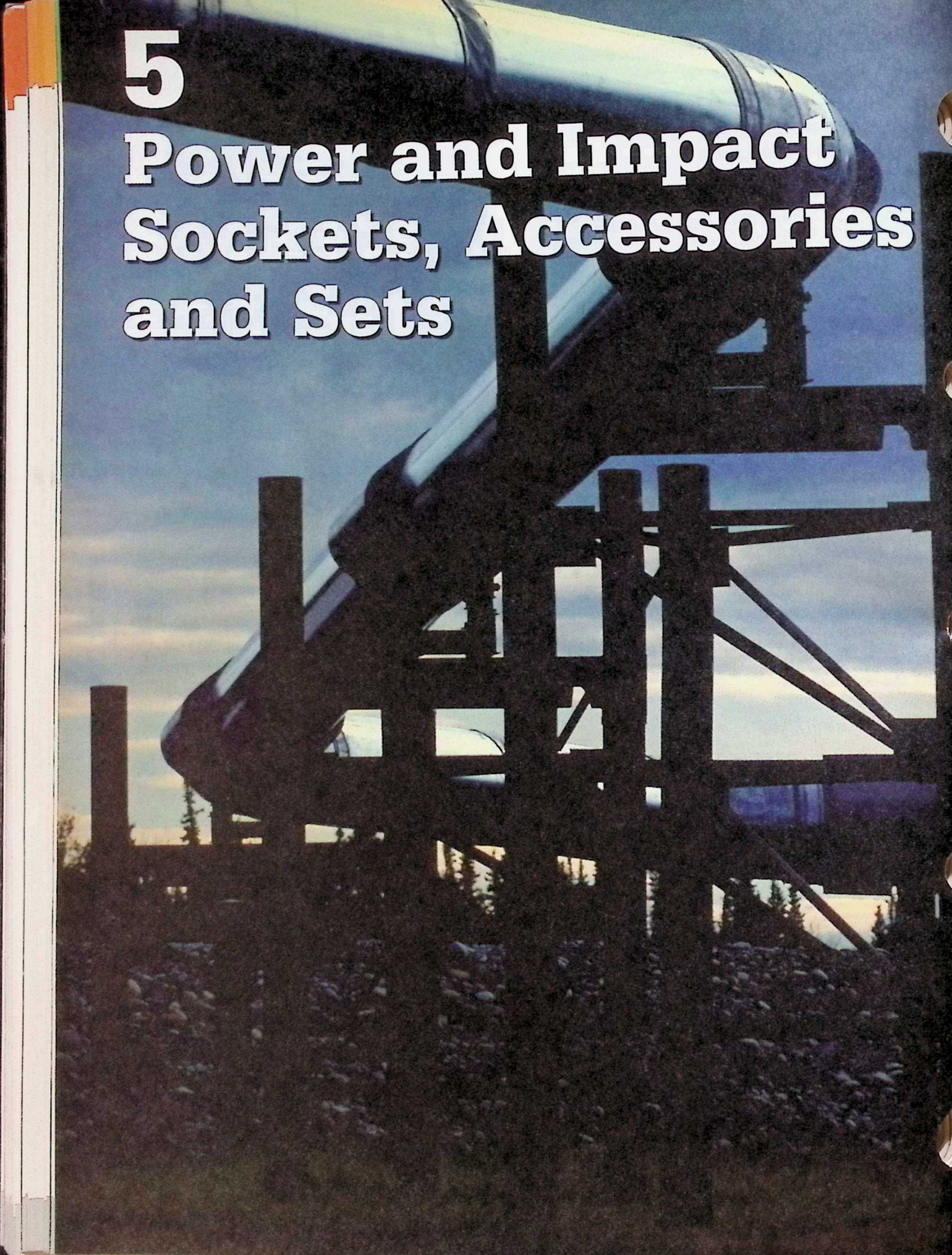
Bars accept clips in all drive sizes and are drilled at each end for easy attachment to wall, workbench or drawer. Made of heavy gauge steel and bright plated. Clips sold in standard package of 10 pieces only.

Bars

Product Number	Length Inches	Weight Pounds
16-831	9	.06
16-832	11	.07
16-834	13	.10
16-835	17	.14

Clips

Product Number	Drive Size Inches	Weight Pounds
16-841	1/4	.01
16-843	3/8	.01
16-845	1/2	.04
16-847	3/4	.10



5 Power and Impact Sockets, Accessories and Sets

Power and Impact Sockets, Accessories and Sets

Armstrong carries a full line of specialized Power and Impact tools:

- Standard, deep and magnetic power sockets.
- Standard and deep impact sockets available in 6, 8 and 12 pt. openings.
- Wide variety of power and impact extensions.
- NEW! #5 spline drive impact sockets through 3".
- 2-1/2" drive impact sockets through 8".
- Full range of adapters to choose from.
- Budd Wheel sockets.

THIN-WALL POWER SOCKETS

Suitable for power applications where limited clearance is a factor. A through-hole in the drive square, instead of four detents, permits secure attachment to power drivers.

STANDARD POWER SOCKETS

Designed for use with powered nut runners and multi-spindle machines. Special heat treating makes these tools highly wear-resistant.

POWER SOCKETS FOR SELF-TAPPING SCREWS

Shallow broach depth and, in most cases, the addition of a magnet make these sockets ideal for the installation of self-tapping screws and other hardened fasteners.

IMPACT SOCKETS

In addition to having a greater wall thickness for added strength, impact sockets are heat treated to a lesser hardness, resulting in great stamina and resilience to impact.

SAFETY NOTICE

POWER SOCKETS

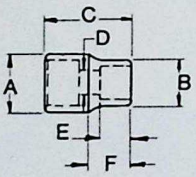
These sockets are for use with power drivers such as nut runners, multiple spindle machines and the like. They are not for use with impact tools. Approved eye protection must always be worn when near power equipment in operation.

IMPACT SOCKETS

These sockets are for use with impact drivers only. Use with power drivers or hardened fasteners may result in excessive, premature wear. Approved eye protection must always be worn when near impact equipment in operation.

ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS

NEW!



No. 5 Spline Drive Impact Sockets*

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
17-434	1-1/16	1.50	2.362	1.693	3.150	0.906	0.709	0.906
17-436	1-1/8	1.60	2.362	1.811	3.150	1.063	0.787	0.748
17-440	1-1/4	1.60	2.362	1.969	3.150	1.063	0.827	0.551
17-442	1-5/16	1.70	2.362	2.087	3.150	1.063	0.866	0.374
17-444	1-3/8	1.80	2.362	2.165	3.150	1.102	0.906	0.276
17-446	1-7/16	1.90	2.362	2.244	3.150	1.181	0.945	0.157
17-448	1-1/2	2.00	2.362	2.323	3.150	1.220	0.984	0.098
17-452	1-5/8	2.10	2.362	2.520	3.150	1.378	1.181	2.362
17-454	1-11/16	2.20	2.362	2.598	3.937	1.654	1.260	3.150
17-456	1-3/4	2.40	2.362	2.756	3.937	1.732	1.260	3.150
17-458	1-13/16	2.60	2.362	2.835	3.937	1.811	1.339	3.150
17-460	1-7/8	2.70	2.362	2.913	3.937	1.850	1.339	3.150
17-464	2	3.10	2.362	3.071	3.937	2.008	1.417	3.150
17-468	2-1/8	3.60	2.362	3.228	3.937	2.087	1.417	3.150
17-470	2-3/16	3.90	2.362	3.307	3.937	2.165	1.496	3.150
17-472	2-1/4	4.00	2.362	3.425	4.331	2.244	1.654	3.543
17-474	2-5/16	4.30	2.362	3.465	4.331	2.283	1.654	3.543
17-476	2-3/8	4.70	3.150	3.543	4.331	2.362	1.732	3.543
17-480	2-1/2	5.40	3.150	3.701	4.724	2.480	1.850	3.937
17-482	2-9/16	6.10	3.150	3.819	4.724	2.559	1.850	3.937
17-484	2-5/8	6.20	3.150	3.898	4.724	2.598	1.850	3.937
17-488	2-3/4	6.50	3.150	4.055	4.724	2.756	1.850	3.937
17-496	3	7.30	3.150	4.370	5.118	2.992	2.087	4.331

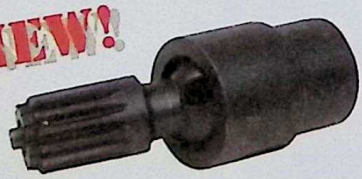
Sizes other than those listed above, as well as Extra Deep Sockets, are available on a special basis.
*Imported.

NEW!

No. 5 Spline Impact Extension

Product Number	Weight Lbs.	Overall Length
17-592	3.50	7

NEW!



No. 5 Spline Impact U-Joint

Product Number	Weight Lbs.
17-596	2.80

NEW!

Impact Adapter #5F, 1"M

Product Number	Weight Lbs.
17-598	1.90

SAFETY NOTICE

NEVER USE HAND SOCKETS ON IMPACT OR POWER APPLICATIONS.

USE IMPACT SOCKETS ONLY ON IMPACT TOOLS.

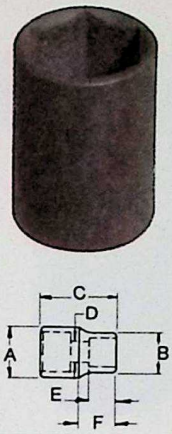
ALWAYS WHERE SAFETY GLASSES AND OBSERVE ALL OTHER RULES WHEN WORKING AROUND IMPACT AND POWER TOOLS.

Always wear eye protection when

Thin Wall Power Sockets, 6-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
18-006	3/16	.02	0.450	0.310	0.820	0.125	0.200	0.380
18-007	7/32	.02	0.450	0.345	0.820	0.125	0.210	0.380
18-008	1/4	.02	0.450	0.390	0.820	0.141	0.250	0.380
18-009	9/32	.03	0.450	0.425	0.820	0.172	0.250	0.380
18-010	5/16	.02	0.465	0.465	0.820	0.172	0.305	
18-011	11/32	.02	0.500	0.500	0.820	0.203	0.315	
18-012	3/8	.03	0.555	0.550	0.820		0.500	
18-014	7/16	.04	0.615	0.615	0.820		0.500	
18-016	1/2	.06	0.680	0.680	0.820		0.500	

Suitable for hand use, or limited-clearance power applications only.



Power Sockets, 6-Point Opening For Self-Tapping Screws

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
18-036	3/16	.02	0.500	0.375	0.875		0.125	0.375
18-038	1/4	.03	0.500	0.375	0.875		0.156	0.453
18-039	9/32	.03	0.500	0.437	0.875		0.187	0.312
18-040	5/16	.03	0.500	0.500	0.875		0.156	
18-041	11/32	.04	0.562	0.562	1.000		0.175	
18-042	3/8	.07	0.562	0.562	1.000		0.175	
18-044	7/16	.07	0.625	0.625	1.000		0.218	
18-046	1/2	.08	0.750	0.750	1.000		0.250	

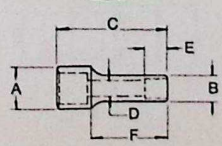
Magnetic Power Sockets, 6-Point Opening For Self-Tapping Screws

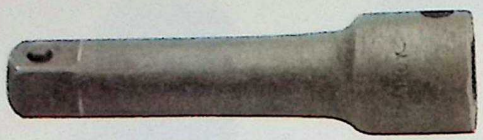
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
18-076	3/16	.03	0.500	0.375	0.875		0.078	0.375
18-078	1/4	.03	0.500	0.375	0.875		0.093	0.453
18-079	9/32	.03	0.500	0.437	0.875		0.093	0.375
18-080	5/16	.03	0.500	0.500	0.875		0.125	
18-081	11/32	.05	0.562	0.562	1.000		0.171	
18-082	3/8	.06	0.562	0.562	1.000		0.187	
18-084	7/16	.07	0.625	0.625	1.000		0.156	
18-086	1/2	.09	0.750	0.750	1.000		0.156	

Thin Wall Power Sockets, Extra Deep 6-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
18-206	3/16	.04	0.450	0.310	1.940	0.125	0.200	0.870
18-208	1/4	.04	0.500	0.380	2.000	0.172	0.219	1.500
18-209	9/32	.05	0.450	0.425	1.940	0.172	0.230	0.870
18-210	5/16	.05	0.500	0.469	2.000	0.187	1.062	1.500
18-211	11/32	.06	0.500	0.500	1.940	0.203	0.725	
18-212	3/8	.08	0.562	0.562	2.000	0.344	1.000	
18-214	7/16	.10	0.625	0.625	2.000	0.297	0.437	
18-216	1/2	.12	0.685	0.685	1.940	0.344	0.950	

Suitable for hand use, or limited-clearance power applications only.





Power Extensions

Product Number	Weight Lbs.	Overall Length
18-921	.06	2
18-923	.14	6

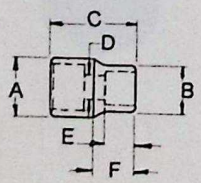
3/8" Drive

Power Sockets, 6-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
19-008	1/4	.05	0.687	0.406	1.062	0.171	0.281	0.500
19-010	5/16	.05	0.687	0.510	0.875	0.187	0.218	0.375
19-012	3/8	.05	0.687	0.600	0.937	0.296	0.250	0.437
19-014	7/16	.06	0.687	0.687	0.937	0.296	0.281	
19-016	1/2	.07	0.812	0.812	0.953	0.359	0.328	
19-018	9/16	.08	0.875	0.875	1.000	0.421	0.375	
19-020	5/8	.12	0.937	0.937	1.125	0.484	0.406	
19-022	11/16	.12	1.000	1.000	1.125	0.484	0.437	
19-024	3/4	.17	1.062	1.062	1.187	0.546	0.515	

Power Sockets, 6-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
46-007	7	23	17.5	11.2	22.2	4.8	5.6	9.5
46-008	8	23	17.5	12.3	22.2	5.5	5.6	9.5
46-009	9	23	17.5	15.2	23.8	5.5	6.3	11.1
46-010	10	23	17.5	15.2	23.8	7.1	6.3	11.1
46-011	11	27	17.5	17.5	23.8	7.9	7.1	11.1
46-012	12	27	20.6	20.6	24.2	8.7	8.3	
46-013	13	32	20.6	20.6	24.2	8.7	8.3	
46-014	14	36	22.2	22.2	25.4	10.7	10.3	
46-015	15	45	22.2	22.2	25.4	10.7	10.3	
46-016	16	54	23.8	23.8	28.6	12.2	10.3	
46-017	17	54	25.4	25.4	28.6	12.7	11.1	
46-018	18	59	25.4	25.4	28.6	12.7	12.7	
46-019	19	73	27.0	27.0	30.2	14.7	14.3	



Magnetic Power Sockets, 6-Point Opening, For Self-Tapping Screws

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
19-080	5/16	.06	0.687	0.531	1.031		0.093	0.312
19-082	3/8	.06	0.687	0.625	1.031		0.140	0.187
19-084	7/16	.07	0.750	0.750	1.031		0.140	0.250
19-086	1/2	.08	0.781	0.781	1.031		0.156	
19-088	9/16	.10	0.875	0.875	1.031		0.156	

Always wear eye protection when

Thin Wall Power Sockets, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
19-108	1/4	.05	0.660	0.375	0.872	0.141	0.200	0.372
19-110	5/16	.05	0.660	0.461	0.872	0.172	0.200	0.372
19-112	3/8	.05	0.660	0.563	0.872	0.206	0.260	0.372
19-114	7/16	.05	0.660	0.660	0.872	0.281	0.293	
19-116	1/2	.07	0.730	0.730	0.900	0.344	0.310	
19-118	9/16	.08	0.784	0.784	0.900		0.490	
19-120	5/8	.10	0.866	0.866	0.972		0.562	
19-122	11/16	.12	0.956	0.956	0.972		0.562	
19-124	3/4	.13	1.010	1.010	1.097		0.670	
19-126	13/16	.19	1.083	1.083	1.097		0.680	
19-128	7/8	.25	1.173	1.173	1.375	0.672	0.578	
19-130	15/16	.27	1.250	1.250	1.375	0.972	0.563	
19-132	1	.28	1.313	1.313	1.375	0.672	0.563	

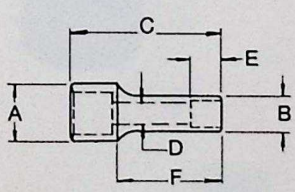
Suitable for hand use, or limited-clearance power applications only.

Power Sockets, Extra Deep, 6-Point Lobular Opening

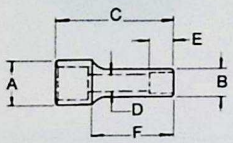
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
19-208	1/4	.06	0.687	0.440	2.000	0.172	0.250	0.562
19-210	5/16	.07	0.687	0.510	2.000	0.187	0.219	0.562
19-212	3/8	.07	0.687	0.600	2.000	0.297	0.250	0.500
19-214	7/16	.10	0.687	0.687	2.000	0.297	1.203	
19-216	1/2	.11	0.812	0.812	2.000	0.359	0.328	
19-218	9/16	.12	0.875	0.875	2.000	0.422	0.406	
19-220	5/8	.16	0.937	0.937	2.000	0.484	0.406	
19-222	11/16	.17	1.000	1.000	2.000	0.484	0.437	
19-224	3/4	.23	1.062	1.062	2.000	0.547	0.562	

Power Sockets, Extra Deep, 6-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
46-209	9	32	17.5	15.2	50.8	5.6	6.4	12.7
46-210	10	36	17.5	15.2	50.8	7.1	6.4	12.7
46-211	11	45	17.5	17.5	50.8	7.9	7.1	
46-212	12	50	20.6	20.6	50.8	8.7	8.3	
46-213	13	50	20.6	20.6	50.8	8.7	8.3	
46-214	14	54	22.2	22.2	50.8	10.7	10.3	
46-215	15	64	22.2	22.2	50.8	10.7	10.3	
46-216	16	68	23.8	23.8	50.8	12.3	10.3	
46-217	17	73	25.4	25.4	50.8	12.7	11.1	
46-218	18	91	25.4	25.4	50.8	12.7	12.7	
46-219	19	100	27.0	27.0	50.8	14.7	14.3	



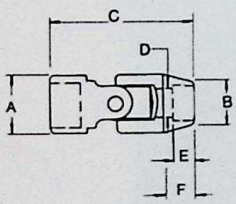
Thin Wall Power Sockets, Extra Deep, 12-Point Lobular Opening



Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
19-308	1/4	.07	0.688	0.388	1.972	0.220	0.280	1.375
19-310	5/16	.08	0.693	0.466	1.975	0.258	0.500	0.937
19-312	3/8	.09	0.654	0.560	2.430	0.281	0.400	0.820
19-314	7/16	.10	0.654	0.654	2.430	0.281	0.750	
19-316	1/2	.13	0.728	0.728	2.430	0.344	1.250	
19-318	9/16	.16	0.778	0.772	2.430	0.328	1.450	
19-320	5/8	.19	0.864	0.864	2.430	0.375	1.450	
19-322	11/16	.23	0.954	0.954	2.430	0.375	1.450	
19-324	3/4	.27	1.006	1.006	2.430	0.437	1.450	
19-326	13/16	.31	1.080	1.080	2.460	0.453	1.680	
19-328	7/8	.42	1.180	1.180	2.460	0.500	1.850	
19-330	15/16	.46	1.250	1.250	2.875	0.672	0.891	
19-332	1	.51	1.313	1.313	2.875	0.672	0.820	

Suitable for hand use, or limited-clearance power applications only.

Thin Wall Power Sockets, Universal, 12-Point Lobular Opening



Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
19-512	3/8	.07	0.675	0.562	1.640	0.325	0.275	0.187
19-514	7/16	.09	0.687	0.625	1.625	0.343	0.250	0.375
19-516	1/2	.10	0.687	0.687	1.625	0.375	0.296	
19-518	9/16	.11	0.687	0.750	1.687	0.437	0.312	0.421
19-520	5/8	.12	0.687	0.875	1.750	0.500	0.406	0.484
19-522	11/16	.13	0.671	0.937	1.281	0.531	0.406	0.562
19-524	3/4	.14	0.687	0.984	1.937	0.515	0.437	0.578

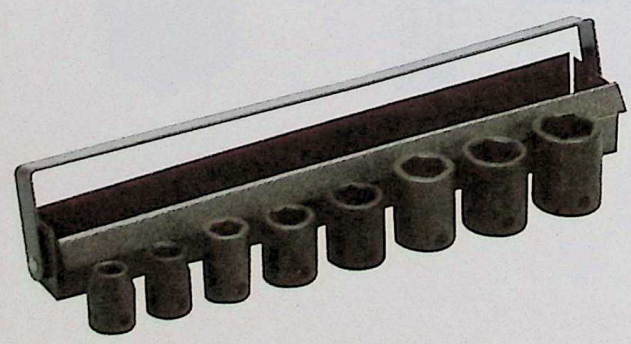
NEW!

Power Sockets, Universal, 6-Point Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
19-562	3/8	.10	0.860	0.562	1.968	0.297	0.250	
19-564	7/16	.11	0.860	0.656	2.031	0.297	0.312	
19-566	1/2	.13	0.860	0.750	2.093	0.359	0.312	
19-568	9/16	.15	0.860	0.812	2.156	0.422	0.375	
19-570	5/8	.21	0.860	0.875	2.218	0.484	0.437	
19-572	11/16	.23	0.860	0.937	2.343	0.484	0.437	
19-574	3/4	.29	0.860	1.062	2.406	0.547	0.437	

3/8" Drive Set 19-892

Contents: 8 Power Sockets in Tote Tray 16-681. Approximate weight, 1.19 pounds.



6-Pt. Std. Length

Product Number	Opening Inches
19-010	5/16"
19-012	3/8"
19-014	7/16"
19-016	1/2"
19-018	9/16"
19-020	5/8"
19-022	11/16"
19-024	3/4"

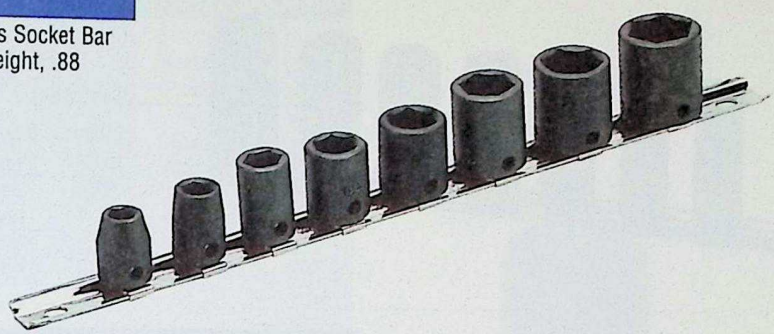
Always wear eye protection when near tool

3/8" Drive Set 19-893

Contents: 8 Power Sockets in cardboard box. Includes Socket Bar 16-831, and (8) Socket Clips 16-843. Approximate weight, .88 pounds.

6-Pt. Std. Length

Product Number	Opening Inches	Product Number	Opening Inches
19-010	5/16"	19-018	9/16"
19-012	3/8"	19-020	5/8"
19-014	7/16"	19-022	11/16"
19-016	1/2"	19-024	3/4"

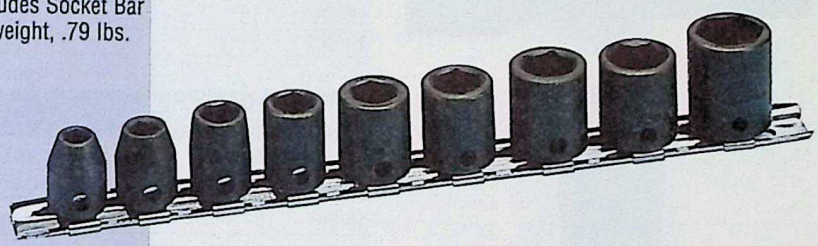


3/8" Drive Power Socket Set 46-893 METRIC

Contents: 9 Power Sockets in a cardboard box. Includes Socket Bar 16-831 and (9) Socket Clips 16-843. Approximate weight, .79 lbs. (35G G).

6-Pt. Std. Length

Product Number	Opening mm	Product Number	Opening mm
46-007	7mm	46-013	13mm
46-008	8mm	46-014	14mm
46-010	10mm	46-015	15mm
46-011	11mm	46-017	17mm
46-012	12mm		

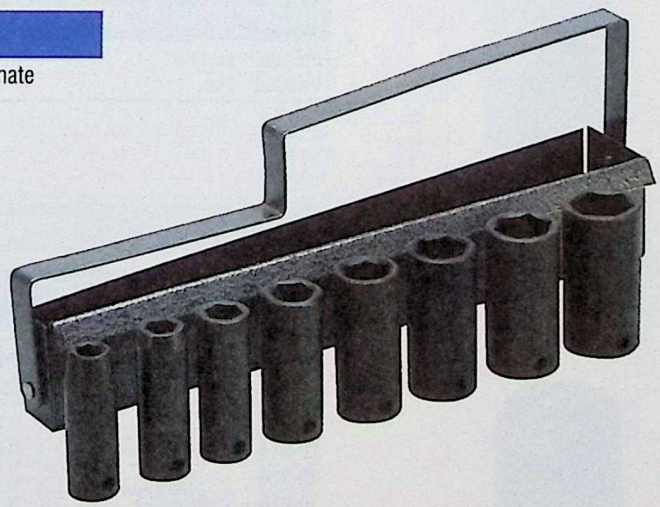


3/8" Drive Set 19-896

Contents: 8 Power Sockets in Tote Tray 16-685. Approximate weight, 1.58 pounds.

6-Pt. Deep

Product Number	Opening Inches	Product Number	Opening Inches
19-210	5/16"	19-218	9/16"
19-212	3/8"	19-220	5/8"
19-214	7/16"	19-222	11/16"
19-216	1/2"	19-224	3/4"

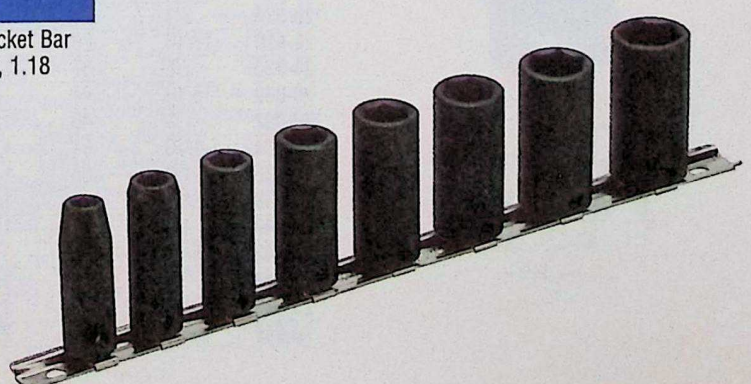


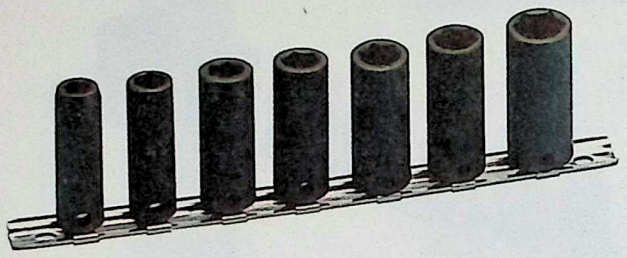
3/8" Drive Set 19-897

Contents: 8 Power Sockets in cardboard box. Includes Socket Bar 16-831, and (8) Socket Clips 16-843. Approximate weight, 1.18 pounds.

6-Pt. Deep

Product Number	Opening Inches	Product Number	Opening Inches
19-210	5/16"	19-218	9/16"
19-212	3/8"	19-220	5/8"
19-214	7/16"	19-222	11/16"
19-216	1/2"	19-224	3/4"





3/8" Drive Power Socket Set 46-897 METRIC

Contents: 7 Sockets in a cardboard box. Includes Socket Bar 16-831 and (7) Socket Clips 16-843. Approximate weight, .95 lbs. (428 G).

6-Pt. Deep

Product Number	Opening mm	Product Number	Opening mm
46-210	10mm	46-214	14mm
46-211	11mm	46-215	15mm
46-212	12mm	46-217	17mm
46-213	13mm		

Power Extensions

Product Number	Weight Lbs.	Overall Length
19-922	.18	3
19-923	.31	6

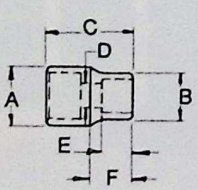
Power Universal Joint

Product Number	Weight Lbs.
19-947	.15

Power Drive Adapter, 3/8" F, 1/2" M

Product Number	Weight Lbs.
19-952	.14

1/2" Drive



Impact Sockets, 6-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
20-012	3/8	.14	0.875	0.610	1.500	0.297	0.281	0.625
20-014	7/16	.14	0.875	0.695	1.500	0.297	0.328	0.625
20-016	1/2	.16	0.938	0.787	1.500	0.359	0.375	0.562
20-018	9/16	.17	0.938	0.855	1.500	0.422	0.422	0.562
20-020	5/8	.18	1.000	1.000	1.500	0.484	0.469	
20-022	11/16	.21	1.063	1.063	1.500	0.484	0.500	
20-024	3/4	.26	1.125	1.125	1.500	0.547	0.500	
20-026	13/16	.29	1.125	1.125	1.500	0.609	0.563	
20-028	7/8	.37	1.313	1.313	1.625	0.672	0.625	
20-030	15/16	.44	1.375	1.375	1.750	0.672	0.688	
20-032	1	.49	1.438	1.438	1.750	0.672	0.750	
20-034	1-1/16	.61	1.500	1.500	2.000	0.703	0.781	
20-036	1-1/8	.65	1.563	1.563	2.000	0.797	0.813	
20-038	1-3/16	.67	1.625	1.625	2.000	0.797	0.875	
20-040	1-1/4	.76	1.750	1.750	2.000	0.828	0.906	
20-042	1-5/16	.91	1.875	1.875	2.000	0.953	0.875	
20-044	1-3/8	1.03	1.938	1.938	2.000	0.953	0.875	
20-046	1-7/16	1.12	2.000	2.000	2.000	1.016	0.875	
20-048	1-1/2	1.25	2.125	2.125	2.000	1.078	0.875	

Always wear eye protection wh

Impact Sockets, 6-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
47-009	9	59	22.2	16.0	38.1	5.5	7.1	15.9
47-010	10	64	22.2	16.0	38.1	7.1	7.1	15.9
47-011	11	64	22.2	18.2	38.1	7.9	8.3	15.9
47-012	12	73	23.8	20.3	38.1	8.7	9.1	15.9
47-013	13	77	23.8	20.3	38.1	8.7	9.5	15.9
47-014	14	77	23.8	22.2	38.1	10.7	10.7	14.3
47-015	15	73	25.4	25.4	38.1	10.7	10.7	
47-016	16	77	25.4	25.4	38.1	12.3	11.9	
47-017	17	82	27.0	27.0	38.1	12.7	10.3	
47-018	18	91	27.0	27.0	38.1	12.7	12.7	
47-019	19	113	28.6	28.6	38.1	14.7	12.7	
47-020	20	122	31.8	31.8	38.1	14.7	15.9	
47-021	21	136	31.8	31.8	38.1	15.5	15.9	
47-022	22	163	33.3	33.3	41.3	17.1	15.9	
47-023	23	177	34.9	34.9	44.5	17.5	17.5	
47-024	24	200	34.9	34.9	44.5	19.1	17.5	
47-025	25	227	36.5	36.5	44.5	19.1	17.5	
47-026	26	254	38.1	38.1	50.8	19.1	19.8	
47-027	27	277	38.1	38.1	50.8	20.6	19.8	
47-030	30	313	41.3	41.3	50.8	22.6	22.2	

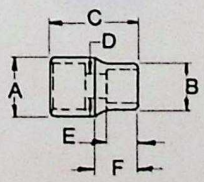
Magnetic Power Sockets, 6-Point Opening, For Self-Tapping Screws

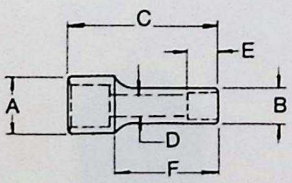
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
20-082	3/8	.15	0.875	0.625	1.500		0.125	0.687
20-084	7/16	.16	0.875	0.687	1.500		0.140	0.437
20-086	1/2	.18	0.875	0.781	1.500		0.156	0.562
20-088	9/16	.20	0.937	0.875	1.500		0.156	0.250

Thin Wall Power Sockets, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
20-112	3/8	.09	0.870	0.580	1.455	0.281	0.375	0.705
20-114	7/16	.10	0.870	0.678	1.455	0.219	0.375	0.705
20-116	1/2	.11	0.870	0.748	1.455	0.266	0.375	0.705
20-118	9/16	.13	0.870	0.812	1.455	0.328	0.400	0.705
20-120	5/8	.15	0.880	0.880	1.455	0.375	0.475	
20-122	11/16	.16	0.956	0.956	1.455	0.375	0.475	
20-124	3/4	.20	1.037	1.037	1.455		0.825	
20-126	13/16	.24	1.125	1.125	1.455		0.915	
20-128	7/8	.33	1.173	1.173	1.455		0.935	
20-130	15/16	.37	1.260	1.260	1.455		0.935	
20-132	1	.41	1.336	1.336	1.580		1.000	
20-134	1-1/16	.43	1.410	1.410	1.580		1.000	
20-136	1-1/8	.50	1.490	1.490	1.640		1.000	
20-140	1-1/4	.83	1.650	1.650	1.715	0.796	1.150	
20-142	1-5/16	.86	1.750	1.750	2.063	0.921	0.937	
20-144	1-3/8	.90	1.937	1.937	2.125	0.922	1.033	
20-146	1-7/16	.98	1.937	1.937	2.187	0.922	0.922	
20-148	1-1/2	1.06	2.000	2.000	2.188	1.047	1.250	

Suitable for hand use, or limited-clearance power applications only.





Impact Sockets, Extra Deep, 6-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
20-212	3/8	.33	0.875	0.625	3.250	0.297	0.281	0.625
20-214	7/16	.35	0.875	0.697	3.250	0.297	0.312	0.562
20-216	1/2	.38	0.937	0.785	3.250	0.359	0.344	0.625
20-218	9/16	.42	0.937	0.875	3.250	0.422	0.406	0.437
20-220	5/8	.45	1.000	1.000	3.250	0.484	0.453	
20-222	11/16	.51	1.062	1.062	3.250	0.484	0.500	
20-224	3/4	.55	1.125	1.125	3.250	0.547	0.562	
20-226	13/16	.69	1.250	1.250	3.250	0.609	0.594	
20-228	7/8	.82	1.312	1.312	3.500	0.672	0.625	
20-230	15/16	.87	1.375	1.375	3.500	0.672	0.687	
20-232	1	.94	1.437	1.437	3.500	0.672	0.750	
20-234	1-1/16	1.06	1.500	1.500	3.500	0.703	0.781	
20-236	1-1/8	1.17	1.562	1.562	3.500	0.797	0.812	
20-240	1-1/4	1.39	1.750	1.750	3.500	0.828	0.875	
20-242	1-5/16	1.51	1.875	1.875	3.500	0.953	0.875	
20-244	1-3/8	1.61	1.937	1.937	3.500	0.953	0.875	
20-246	1-7/16	1.78	2.000	2.000	3.500	1.016	0.875	
20-248	1-1/2	1.87	2.125	2.125	3.500	1.078	0.875	

Impact Sockets, Extra Deep, 6-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
47-209	9	136	22.2	15.9	82.5	5.6	7.1	15.9
47-210	10	150	22.2	15.9	82.5	7.1	7.1	15.9
47-211	11	145	22.2	17.7	82.5	7.9	8.3	15.9
47-212	12	164	23.8	19.9	82.5	8.7	9.1	15.9
47-213	13	173	23.8	19.9	82.5	8.7	9.5	15.9
47-214	14	186	23.8	22.2	82.5	10.7	10.7	14.3
47-215	15	200	25.4	25.4	82.5	10.7	10.7	
47-216	16	209	25.4	25.4	82.5	12.3	11.9	
47-217	17	218	27.0	27.0	82.5	12.7	12.7	
47-218	18	240	27.0	27.0	82.5	12.7	12.7	
47-219	19	249	28.5	28.5	82.5	14.7	12.7	
47-220	20	263	31.7	31.7	82.5	14.7	15.9	
47-221	21	318	31.7	31.7	82.5	15.5	15.9	
47-222	22	372	33.3	33.3	88.9	17.0	15.9	
47-223	23	385	34.9	34.9	88.9	17.4	17.4	
47-224	24	395	34.9	34.9	88.9	18.6	17.4	
47-225	25	417	36.5	36.5	88.9	19.0	17.4	
47-226	26	444	38.1	38.1	88.9	19.0	19.8	
47-227	27	476	38.1	38.1	88.9	20.6	19.8	
47-230	30	572	41.3	41.3	88.9	22.6	22.2	

SAFETY NOTICE

NEVER USE HAND SOCKETS ON IMPACT OR POWER APPLICATIONS.

USE IMPACT SOCKETS ONLY ON IMPACT TOOLS.

ALWAYS WHERE SAFETY GLASSES AND OBSERVE ALL OTHER RULES WHEN WORKING AROUND IMPACT AND POWER TOOLS.

Always wear eye protection wh...

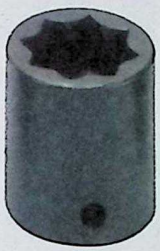
Thin Wall Power Sockets, Extra Deep, 12-Point Lobular Opening

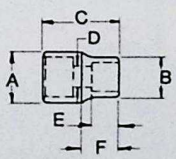
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
20-312	3/8	.21	0.875	0.555	3.218	0.281	0.531	1.250
20-314	7/16	.23	0.875	0.630	3.218	0.281	0.531	1.250
20-316	1/2	.25	0.875	0.716	3.218	0.343	0.562	1.250
20-318	9/16	.26	0.875	0.785	3.218	0.406	0.593	1.250
20-320	5/8	.28	0.875	0.875	3.218	0.468	0.312	
20-322	11/16	.31	0.937	0.937	3.218	0.656	0.625	
20-324	3/4	.42	1.052	1.052	3.218	0.531	0.328	
20-326	13/16	.45	1.115	1.115	3.218	0.593	0.343	
20-328	7/8	.50	1.177	1.177	3.218	0.656	0.718	
20-330	15/16	.56	1.309	1.309	3.218	0.656	1.812	
20-332	1	.63	1.309	1.309	3.218	0.656	1.750	
20-334	1-1/16	.72	1.437	1.437	3.218	1.031	1.625	
20-336	1-1/8	.78	1.490	1.490	3.218	0.781	0.812	
20-340	1-1/4	1.29	1.687	1.687	3.218	0.781	0.875	

Suitable for hand use, or limited-clearance power applications only.

Impact Sockets, 8-Point Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
20-412	3/8	.17	0.937	0.728	1.500	0.297	0.281	0.656
20-414	7/16	.18	0.937	0.822	1.500	0.297	0.312	0.656
20-416	1/2	.21	1.000	0.916	1.500	0.359	0.343	0.625
20-418	9/16	.28	1.125	1.015	1.500	0.422	0.375	0.625
20-420	5/8	.29	1.125	1.125	1.500	0.484	0.406	
20-422	11/16	.36	1.250	1.250	1.500	0.484	0.437	
20-424	3/4	.38	1.312	1.312	1.500	0.547	0.500	
20-426	13/16	.42	1.375	1.375	1.500	0.609	0.531	
20-428	7/8	.47	1.500	1.500	1.500	0.609	0.562	
20-430	15/16	.69	1.625	1.625	1.750	0.672	0.625	
20-432	1	.79	1.750	1.750	1.750	0.672	0.656	

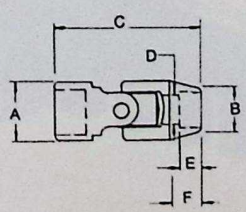




Thin Wall Power Sockets, Universal, 12-Point Lobular Opening

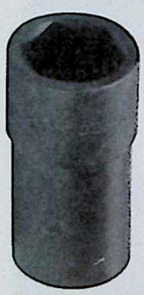
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
20-516	1/2	.24	0.875	0.718	1.687	0.375	0.500	0.609
20-518	9/16	.24	0.875	0.875	1.687	0.437	0.625	
20-520	5/8	.25	0.875	0.937	1.687	0.437	0.625	
20-522	11/16	.26	0.875	0.937	1.687	0.500	0.625	
20-524	3/4	.29	0.875	1.062	1.687	0.734	0.609	0.750

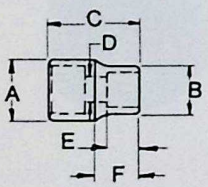
Suitable for hand use, or limited-clearance power applications only.



Power Sockets, Universal, 6-Point Opening

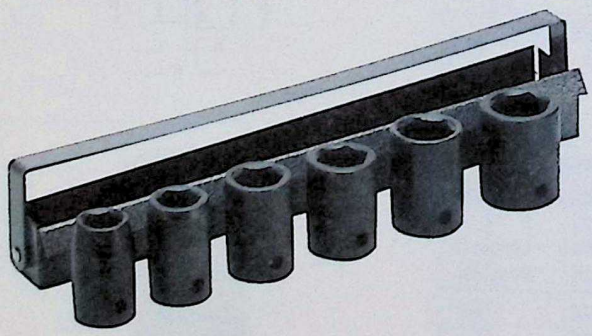
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
20-566	1/2	.33	1.000	1.000	2.546	0.421	0.375	0.375
20-568	9/16	.33	1.000	1.000	2.562	0.468	0.375	0.250
20-570	5/8	.36	1.000	1.000	2.703	0.525	0.515	0.125
20-572	11/16	.44	1.000	1.125	2.843	0.562	0.562	0.250
20-574	3/4	.44	1.000	1.125	2.890	0.578	0.609	
20-576	13/16	.48	1.000	1.187	3.312	0.687	0.671	0.781
20-578	7/8	.48	1.000	1.256	3.015	0.750	0.625	0.812
20-580	15/16	.56	1.000	1.375	3.125	0.671	0.719	0.875
20-582	1	.54	1.000	1.437	3.125	0.671	0.719	0.875





Flip Socket, 6-Point Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
20-595	3/4-13/16	.40	1.093	1.203	2.750	0.796/0.734	.687/.734	1.000/1.687

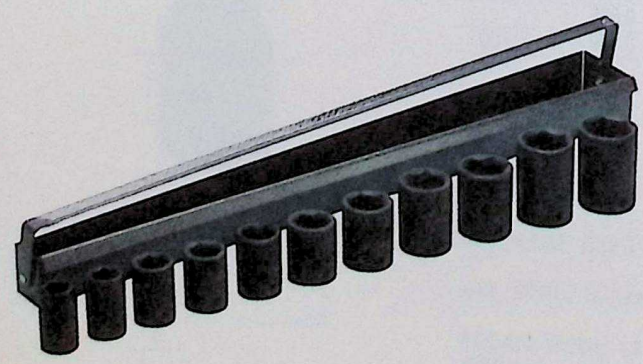


1/2" Drive Set 20-890

Contents: 6 Impact Sockets in Tote Tray 16-681. Approximate weight, 1.54 pounds.

6-Pt. Std Length

Product Number	Opening Inches
20-016	1/2"
20-018	9/16"
20-020	5/8"
20-022	11/16"
20-024	3/4"
20-026	13/16"



1/2" Drive Set 20-892

Contents: 11 Impact Sockets in Tote Tray 16-695. Approximate weight, 4.96 pounds.

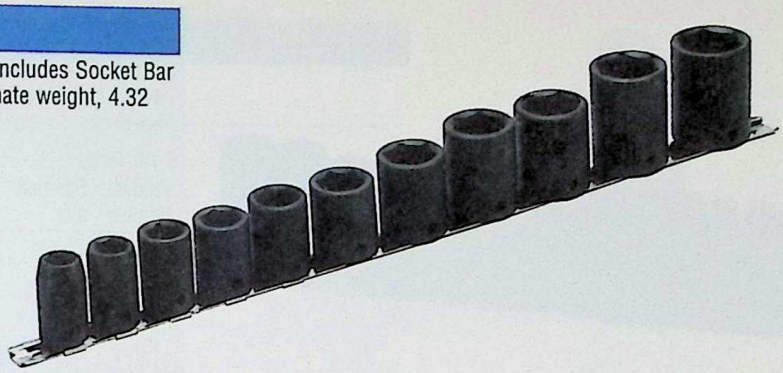
6-Pt. Std Length

Product Number	Opening Inches
20-016	1/2"
20-018	9/16"
20-020	5/8"
20-022	11/16"
20-024	3/4"
20-026	13/16"
20-028	7/8"
20-030	15/16"
20-032	1"
20-034	1-1/16"
20-036	1-1/8"

Always wear eye protection when near tools

1/2" Drive Set 20-893

Contents: 11 Impact Sockets in cardboard box. Includes Socket Bar 16-835, and (11) Socket Clips 16-845. Approximate weight, 4.32 pounds.

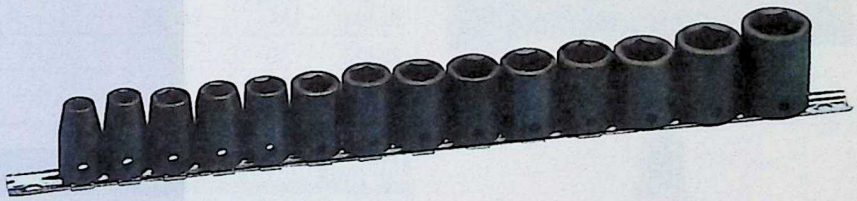


6-Pt. Std Length

Product Number	Opening Inches	Product Number	Opening Inches
20-016	1/2"	20-028	7/8"
20-018	9/16"	20-030	15/16"
20-020	5/8"	20-032	1"
20-022	11/16"	20-034	1-1/16"
20-024	3/4"	20-036	1-1/8"
20-026	13/16"		

1/2" Drive Impact Socket Set 47-893 METRIC

Contents: 14 Sockets in a cardboard box. Includes Socket Bar 16-834 and (14) Socket Clips 16-845. Approximate weight, 3.77 lbs. (1695 G).

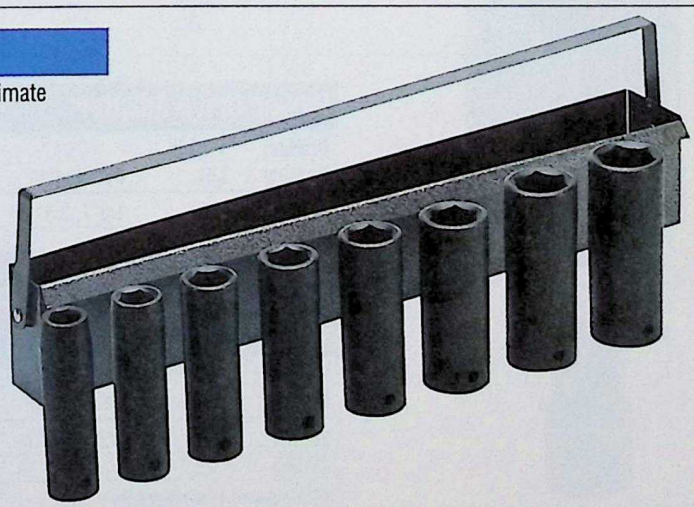


6-Pt. Std Length

Product Number	Opening mm	Product Number	Opening mm
47-010	10mm	47-017	17mm
47-011	11mm	47-018	18mm
47-012	12mm	47-019	19mm
47-013	13mm	47-020	20mm
47-014	14mm	47-021	21mm
47-015	15mm	47-022	22mm
47-016	16mm	47-024	24mm

1/2" Drive Set 20-896

Contents: 8 Impact Sockets in Tote Tray 16-691. Approximate weight, 5.78 pounds.

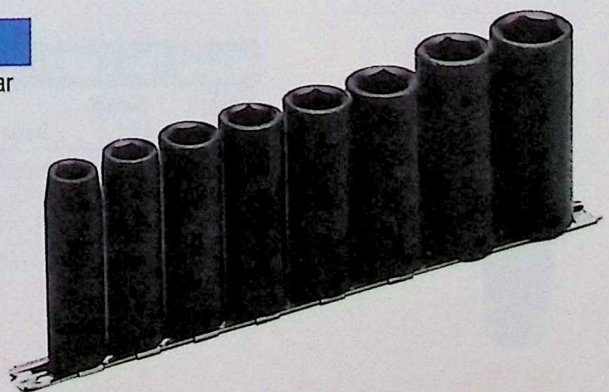


6-Pt. Deep

Product Number	Opening Inches	Product Number	Opening Inches
20-216	1/2"	20-224	3/4"
20-218	9/16"	20-226	13/16"
20-220	5/8"	20-228	7/8"
20-222	11/16"	20-230	15/16"

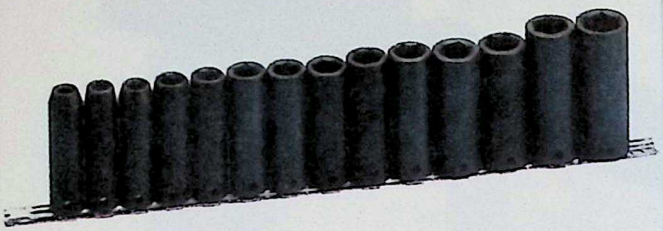
1/2" Drive Set 20-897

Contents: 8 Impact Sockets in cardboard box. Includes Socket Bar 16-831, and (8) Socket Clips 16-845. Approximate weight, 5.09 pounds.



6-Pt. Deep

Product Number	Opening Inches	Product Number	Opening Inches
20-216	1/2"	20-224	3/4"
20-218	9/16"	20-226	13/16"
20-220	5/8"	20-228	7/8"
20-222	11/16"	20-230	15/16"



1/2" Drive Impact Socket Set 47-897 METRIC

Contents: 14 Sockets in a cardboard box. Includes Socket Bar 16-835 and (14) Socket Clips 16-845.
Approximate weight, 7.89 lbs. (3,550 G).

6-Pt. Deep

Product Number	Opening mm	Product Number	Opening mm
47-210	10mm	47-217	17mm
47-211	11mm	47-218	18mm
47-212	12mm	47-219	19mm
47-213	13mm	47-220	20mm
47-214	14mm	47-221	21mm
47-215	15mm	47-222	22mm
47-216	16mm	47-224	24mm

Impact Extensions

Product Number	Weight Lbs.	Overall Length
20-923	.49	5
20-924	.89	10

Impact Universal Joint

Product Number	Weight Lbs.
20-947	.37

Power Drive Adapter

Product Number	Weight Lbs.	Description
20-951	.13	1/2" F, 3/8" M

Impact Drive Adapters

Product Number	Weight Lbs.	Description
20-952*	.25	1/2" F, 3/4" M
20-953	.23	1/2" F, 5/8" M

*Male square has pin thru hole.

Impact Hex Square Shank

Product Number	Weight Lbs.	Description
20-959	.17	1/2 Sq., 7/16" Hex, 2-3/4" Lg.

Always wear eye protection when near

Impact Drive Adapter

Product Number	Weight Lbs.	Description
20-996	.39	5/8" F, 1/2" M

3/4" Drive

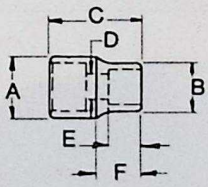
Impact Sockets, 6-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
21-016	1/2	.62	1.625	0.875	1.750	0.359	0.375	0.750
21-018	9/16	.62	1.625	1.000	1.750	0.422	0.406	0.750
21-020	5/8	.65	1.625	1.096	1.750	0.484	0.437	0.750
21-022	11/16	.62	1.625	1.156	1.750	0.484	0.469	0.750
21-024	3/4	.63	1.625	1.253	1.750	0.547	0.500	0.750
21-026	13/16	.71	1.625	1.378	1.875	0.609	0.531	0.750
21-028	7/8	.74	1.625	1.503	1.875	0.672	0.562	0.750
21-030	15/16	.75	1.625	1.625	2.000	0.672	0.594	
21-032	1	.74	1.625	1.625	2.000	0.672	0.625	
21-034	1-1/16	.76	1.625	1.687	2.000	0.703	0.656	1.312
21-036	1-1/8	.87	1.625	1.750	2.125	0.797	0.687	1.437
21-038	1-3/16	.94	1.625	1.875	2.125	0.797	0.718	1.437
21-040	1-1/4	1.10	1.750	2.000	2.125	0.828	0.750	1.437
21-042	1-5/16	1.24	1.750	2.062	2.250	0.953	0.782	1.562
21-044	1-3/8	1.33	1.750	2.125	2.250	0.953	0.812	1.562
21-046	1-7/16	1.44	1.750	2.250	2.250	1.016	0.844	1.562
21-048*	1-1/2	1.59	1.750	2.312	2.375	1.078	0.875	1.687
21-052	1-5/8	1.73	1.875	2.437	2.375	1.141	0.937	1.687
21-054	1-11/16	1.79	1.875	2.500	2.375	1.203	1.000	1.687

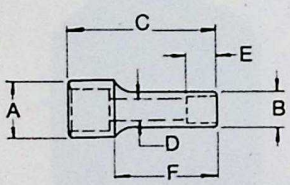
*Can be used for removal of Budd Wheels.

Impact Sockets, 6-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
48-019	19	281	41.3	31.8	44.5	14.7	12.7	19.1
48-020	20	300	41.3	34.4	47.6	14.7	13.5	19.1
48-021	21	309	41.3	34.4	47.6	15.5	13.5	19.1
48-022	22	327	41.3	38.1	47.6	17.1	14.3	19.1
48-023	23	335	41.3	41.3	50.8	17.5	15.0	
48-024	24	354	41.3	41.3	50.8	18.7	15.0	
48-025	25	345	41.3	41.3	50.8	19.1	15.9	
48-026	26	349	41.3	42.8	50.8	19.1	16.7	17.5
48-027	27	345	41.3	42.8	50.8	20.6	16.7	17.5
48-030	30	413	41.3	47.6	54.0	22.6	18.3	17.5
48-032	32	490	44.5	50.8	54.0	25.0	19.1	17.5
48-036	36	631	44.5	57.2	57.2	27.8	21.4	17.5
48-041	41	776	47.6	61.9	60.3	31.0	23.8	17.5
48-046	46	980	47.6	70.0	63.5	34.1	25.4	17.5
48-050	50	1125	47.6	76.2	68.3	36.9	27.0	17.5



Impact Sockets, Extra Deep, 6-Point Lobular Opening



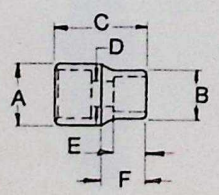
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
21-218	9/16	1.31	1.625	1.000	3.250	0.421	0.406	0.812
21-220	5/8	1.36	1.625	1.107	3.250	0.484	0.437	0.812
21-222	11/16	1.32	1.625	1.169	3.250	0.484	0.568	0.812
21-224	3/4	1.30	1.625	1.260	3.250	0.546	0.500	0.812
21-226	13/16	1.31	1.625	1.385	3.250	0.609	0.531	0.812
21-228	7/8	1.40	1.625	1.503	3.500	0.671	0.562	0.812
21-230	15/16	1.37	1.625	1.625	3.500	0.671	0.593	
21-232	1	1.30	1.625	1.625	3.500	0.671	0.625	
21-234	1-1/16	1.49	1.625	1.750	3.500	0.703	0.656	2.812
21-236	1-1/8	1.44	1.625	1.750	3.500	0.796	0.687	2.812
21-238	1-3/16	1.60	1.625	1.875	3.500	0.796	0.718	2.812
21-240	1-1/4	1.90	1.750	2.000	3.500	0.828	0.750	2.812
21-242	1-5/16	1.94	1.750	2.061	3.562	0.953	0.781	2.875
21-244	1-3/8	2.03	1.750	2.125	3.562	0.953	0.812	2.875
21-246	1-7/16	2.21	1.750	2.250	3.562	1.061	0.843	2.875
21-248*	1-1/2	2.30	1.750	2.312	3.562	1.078	0.875	2.875
21-252	1-5/8	2.44	1.750	2.437	3.562	1.140	0.937	2.875
21-254	1-11/16	3.02	1.750	2.500	3.562	1.203	1.000	2.875

*Can be used for removal of Budd Wheels.

Impact Sockets, Extra Deep, 6-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
48-221	21	596	41.3	35.2	82.5	15.5	13.5	20.6
48-222	22	636	41.3	38.2	88.9	17.0	14.3	20.6
48-223	23	630	41.3	41.3	88.9	17.5	15.1	
48-224	24	623	41.3	41.3	88.9	18.6	16.7	
48-226	26	634	44.5	44.5	88.9	19.0	16.7	
48-227	27	677	41.3	44.5	88.9	20.6	16.7	
48-230	30	727	41.3	47.6	88.9	22.6	18.2	
48-232	32	868	44.5	50.8	88.9	25.0	19.1	
48-236	36	991	44.5	57.2	88.9	27.8	21.4	
48-241	41	1086	44.5	61.9	88.9	30.9	23.8	

Impact Sockets 8-Point Opening



Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
21-420	5/8	.58	1.625	1.253	1.625	0.484	0.437	0.750
21-424	3/4	.68	1.625	1.503	1.750	0.546	0.500	0.750
21-426*	13/16	.72	1.625	1.625	1.875	0.609	0.531	
21-428	7/8	.80	1.625	1.625	1.875	0.609	0.562	
21-430*	15/16	.87	1.625	1.625	1.875	0.671	0.593	
21-432	1	1.02	1.625	1.625	2.000	0.671	0.625	
21-434	1-1/16	1.10	1.750	1.750	2.000	1.062	0.656	
21-436	1-1/8	1.28	1.750	1.750	2.125	1.062	0.718	
21-440	1-1/4	1.60	1.750	1.750	2.125	1.062	0.687	
21-446	1-7/16	1.98	1.750	1.750	2.250	1.062	0.765	

*Can be used for removal of Budd Wheels.

Always wear eye protection

Budd Wheel Socket

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
21-505	1-1/2x13/16	2.87	1.750	2.250	4.000	0.625	0.656/2.250	3.313

Dual opening socket. Square (13/16) opening threads shaft onto wheel; then hex (1-1/2) opening engages and tightens nut.

Standard Length Power Hexdriver Sockets

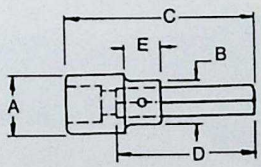
Product Number	Bit Size Inches	Weight Lbs.	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
21-718	9/16	.71	1.625	1.125	3.937	2.312	1.062
21-719	5/8	.75	1.625	1.250	4.000	2.312	1.062
21-721	3/4	.82	1.750	1.500	4.437	2.500	1.375
21-723	7/8	.87	1.750	1.625	4.500	2.625	1.375
21-725	1	.93	1.875	1.750	4.625	2.750	1.375

Not for use with impact drivers. For replacement bits, see Appendix B.

Standard Length Power Hexdriver Sockets METRIC

Product Number	Bit Size mm	Weight G	A Drive End	B Nose Diameter	C Overall Length	D Bit Length	E Length to Shoulder
48-719	14	317	41.3	28.6	100.0	58.7	27.0
48-722	17	349	41.3	31.8	101.6	58.7	27.0
48-724	19	367	44.5	38.1	111.1	63.5	34.9
48-725	22	390	44.5	41.3	114.3	66.7	34.9
48-726	24	413	47.6	44.5	119.1	69.9	34.9

Not for use with impact drivers. For replacement bits, see Appendix B.

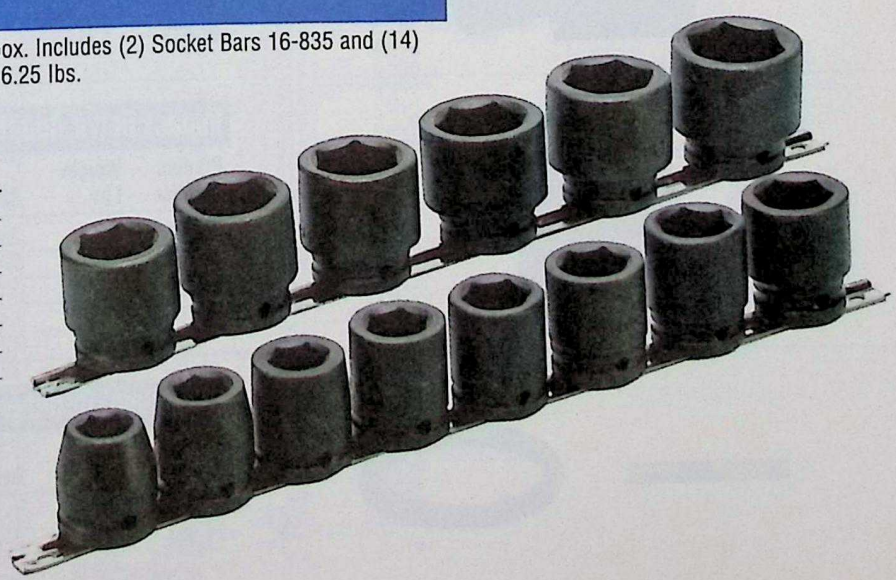


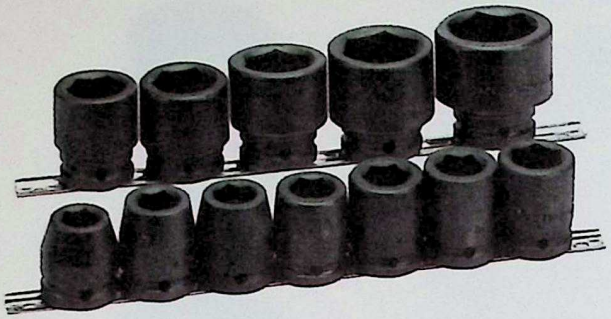
3/4" Drive Set 21-893

Contents: 14 Impact Sockets in cardboard box. Includes (2) Socket Bars 16-835 and (14) Socket Clips 16-847. Approximate weight, 16.25 lbs.

6-pt. Std. Length

Product Number	Opening Inches	Product Number	Opening Inches
21-024	3/4"	21-038	1-3/16"
21-026	13/16"	21-040	1-1/4"
21-028	7/8"	21-042	1-5/16"
21-030	15/16"	21-044	1-3/8"
21-032	1"	21-046	1-7/16"
21-034	1-1/16"	21-048	1-1/2"
21-036	1-1/8"	21-052	1-5/8"



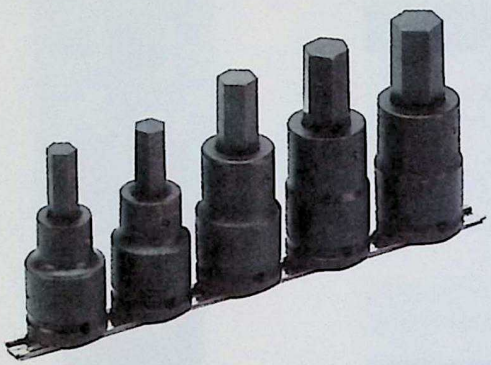


3/4" Drive Impact Socket Set 48-893 METRIC

Contents: 12 Sockets in a cardboard box. Includes 2 Socket Bars 16-834 and (12) Socket Clips 16-847.
Approximate weight, 13.6 lbs. (6.1 KG)

6-Pt. Std Length

Product Number	Opening mm	Product Number	Opening mm
48-019	19mm	48-027	27mm
48-020	20mm	48-030	30mm
48-021	21mm	48-032	32mm
48-022	22mm	48-036	36mm
48-023	23mm	48-041	41mm
48-024	24mm	48-046	46mm



3/4" Drive Set 21-899

Contents: 5 Hex Drivers in cardboard box. Includes Socket Bar 16-831 and (5) Socket Clips 16-847. Approximate weight, 4.66 lbs.

Power Hex Driver Sockets

Product Number	Opening Inches	Product Number	Opening Inches
21-718	9/16"	21-723	7/8"
21-719	5/8"	21-725	1"
21-721	3/4"		

Impact Extensions

Product Number	Weight Lbs.	Overall Length
21-923	1.80	7
21-924	2.54	10
21-925	3.29	13

Impact Universal Joint

Product Number	Weight Lbs.
21-947	1.21

Impact Drive Adapters

Product Number	Weight Lbs.	Description
21-951	.64	3/4" F, 1/2" M
21-952	.85	3/4" F, 1" M
21-953	.67	3/4" F, 5/8" M

O-Ring and Retainer Pin

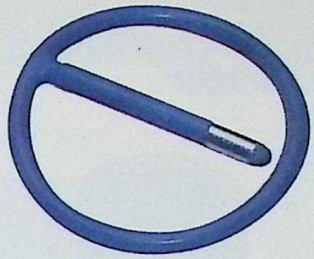
Product Number	Weight Lbs.	Description
21-962	.01	1-7/16" Dia. O-Ring
21-963	.01	1-1/2" Lg. Retainer Pin

For use with all 3/4" Drive Impact Sockets and Attachments

Always wear eye protection when...

Ret Rings

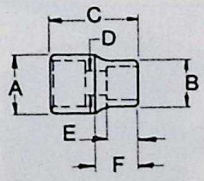
NEW!



Product No.	I. D. of Ring	Hub Dia. Skt.	Use with Armstrong Product
21-964	1-7/16	1-5/8	21-016 through 21-038, 21-420 through 21-432, 48-019 through 48-030, 21-218 through 21-226, 21-228 through 21-238, 48-221 through 48-224, 48-227 through 48-230, 21-718 through 21-719, 48-719 through 48-722
21-965	1-5/8	1-3/4	21-040 through 21-048, 21-434 through 21-446, 48-032 through 48-036, 21-240 through 21-254, 48-226, 48-232 through 48-241, 21-721 through 21-723, 48-724 through 48-725
21-967	1-3/4	1-7/8	21-052 through 21-054, 48-041 through 48-050, 21-725, 48-726

1" Drive

Impact Sockets, 6-Point Opening



Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
22-024	3/4	1.31	2.125	0.763	2.062	0.546	0.500	0.812
22-026	13/16	1.38	2.125	0.826	2.125	0.609	0.531	0.875
22-028	7/8	1.40	2.125	0.888	2.187	0.671	0.531	0.875
22-030	15/16	1.39	2.125	0.953	2.187	0.671	0.625	0.875
22-032	1	1.48	2.125	1.015	2.250	0.671	0.656	0.875
22-034	1-1/16	1.46	2.125	1.077	2.250	0.703	0.656	0.875
22-036	1-1/8	1.55	2.125	1.133	2.375	0.796	0.687	0.875
22-038	1-3/16	1.54	2.125	1.204	2.437	0.796	0.750	0.875
22-040	1-1/4	1.52	2.125	1.267	2.437	0.828	0.812	0.875
22-042	1-5/16	1.64	2.125	2.125	2.562	0.953	0.843	
22-044	1-3/8	1.84	2.250	2.250	2.562	0.953	0.843	
22-046	1-7/16	1.84	2.250	2.250	2.562	1.015	0.843	
22-048*	1-1/2	1.99	2.250	2.312	2.625	1.078	0.875	1.750
22-050	1-9/16	1.91	2.250	2.375	2.625	1.078	0.875	1.750
22-052	1-5/8	2.04	2.250	2.437	2.625	1.140	0.875	1.750
22-054	1-11/16	2.16	2.250	2.500	2.687	1.203	1.000	1.812
22-056*	1-3/4	2.33	2.250	2.625	2.687	1.203	1.000	1.812
22-058	1-13/16	2.60	2.250	2.750	2.750	1.265	1.000	1.875
22-060	1-7/8	2.66	2.250	2.750	2.875	1.328	1.093	2.000
22-062	1-15/16	2.86	2.250	2.875	2.875	1.328	1.093	2.000
22-064	2	3.13	2.250	3.000	2.937	1.390	1.093	2.062
22-066	2-1/16	3.24	2.250	3.000	3.062	1.453	1.218	2.187
22-068	2-1/8	3.64	2.375	3.125	3.125	1.453	1.218	2.250
22-070	2-3/16	3.94	2.375	3.250	3.125	1.453	1.218	2.250
22-072	2-1/4	3.91	2.375	3.250	3.250	1.515	1.312	2.375
22-074	2-5/16	4.33	2.375	3.375	3.312	1.515	1.312	2.500
22-076	2-3/8	4.72	2.375	3.500	3.312	1.515	1.312	2.500
22-078	2-7/16	4.87	2.375	3.500	3.500	1.703	1.375	2.625
22-080	2-1/2	5.40	2.375	3.750	3.500	1.703	1.375	2.625
22-082	2-9/16	6.11	2.375	3.750	3.500	1.765	1.375	2.625
22-084	2-5/8	6.63	2.375	3.750	3.687	1.828	1.468	2.812
22-086	2-11/16	6.27	2.375	4.000	3.687	1.828	1.468	2.812
22-088	2-3/4	6.26	2.375	4.000	3.687	1.890	1.500	2.812
22-090	2-13/16	6.28	2.375	4.000	3.875	1.953	1.625	3.000
22-092	2-7/8	6.37	2.375	4.000	3.937	1.953	1.625	3.062
22-094	2-15/16	6.74	2.375	4.125	3.937	1.953	1.625	3.062
22-096	3	7.30	2.375	4.250	4.062	2.140	1.718	3.187
22-100	3-1/8	7.76	2.375	4.375	4.125	2.140	1.718	3.250
22-104	3-1/4	8.51	2.375	4.500	4.125	2.140	1.718	3.250
22-108	3-3/8	9.20	2.375	4.625	4.500	2.390	1.937	3.375
22-112	3-1/2	9.28	2.375	4.750	4.500	2.390	1.937	3.375
22-116	3-5/8	10.33	2.375	5.000	4.500	2.390	1.937	3.375

*Can be used for removal of Budd Wheels.

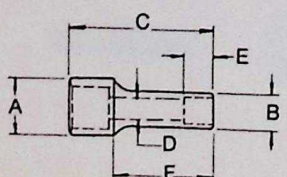
Impact Sockets, Extra Deep 6-Point Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
22-228	7/8	2.72	2.000	1.531	3.250	0.671	0.562	0.937
22-230	15/16	2.68	2.000	1.593	3.250	0.671	0.625	0.937
22-232	1	2.84	2.000	1.750	3.250	0.671	0.625	0.937
22-234	1-1/16	2.79	2.000	1.750	3.250	0.703	0.656	0.937
22-236	1-1/8	2.95	2.125	1.812	3.250	0.796	0.687	0.937
22-238	1-3/16	2.91	2.125	1.875	3.250	0.796	0.718	0.937
22-240	1-1/4	2.86	2.125	2.000	3.250	0.828	0.750	0.937
22-242	1-5/16	3.07	2.125	2.125	3.500	0.953	0.781	
22-244	1-3/8	3.42	2.250	2.125	3.500	0.953	0.781	0.937
22-246	1-7/16	3.43	2.250	2.250	3.500	1.015	0.781	
22-248*	1-1/2	3.68	2.250	2.312	3.500	1.078	0.875	2.625
22-250	1-9/16	3.51	2.250	2.375	3.500	1.078	0.875	2.625
22-252	1-5/8	3.73	2.250	2.437	3.500	1.140	0.875	2.625
22-254	1-11/16	3.93	2.250	2.500	3.750	1.203	1.000	2.875
22-256*	1-3/4	4.24	2.250	2.625	3.750	1.203	1.000	2.875
22-258	1-13/16	4.71	2.250	2.750	3.750	1.265	1.000	2.875
22-260	1-7/8	4.79	2.250	2.750	4.000	1.328	1.093	3.125
22-262	1-15/16	5.12	2.250	2.875	4.000	1.328	1.093	3.125
22-264	2	5.57	2.250	3.000	4.000	1.390	1.093	3.125
22-266	2-1/16	5.73	2.250	3.000	4.250	1.453	1.218	3.375
22-268	2-1/8	6.41	2.375	3.125	4.250	1.453	1.218	3.375
22-270	2-3/16	6.90	2.375	3.250	4.250	1.515	1.218	3.375
22-272	2-1/4	6.80	2.375	3.250	4.500	1.578	1.312	3.625
22-274	2-5/16	7.49	2.375	3.375	4.500	1.578	1.312	3.625
22-276	2-3/8	8.07	2.375	3.500	4.500	1.578	1.312	3.625

*Can be used for removal of Budd Wheels.

Impact Sockets, Extra Deep 4-Point Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
22-424	3/4	1.61	2.125	1.878	2.250	0.546	0.500	1.000
22-426	13/16	1.57	2.125	1.940	2.250	0.609	0.500	1.000
22-428	7/8	1.60	2.125	2.000	2.250	0.609	0.531	1.000
22-432	1	1.71	2.125	2.125	2.500	0.671	0.593	
22-436	1-1/8	1.99	2.250	2.250	2.500	0.796	0.750	



Budd Wheel Socket

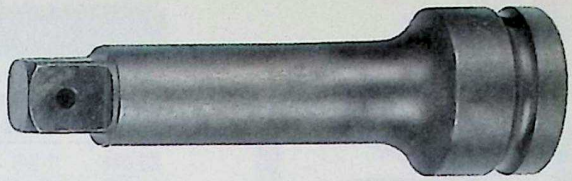
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
22-505	1-1/2x13/16	3.56	2.250	2.312	4.000	0.750	0.656/2.250	3.313

Double opening socket. Square (13/16") opening threads shaft onto wheel; then hex (1-1/2) opening engages and tightens nut.

Always wear

Impact Extensions

Product Number	Weight Lbs.	Overall Length
22-923	3.50	7
22-925	6.85	13

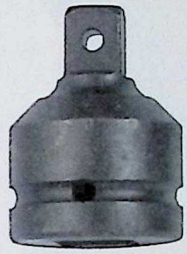


Impact Universal Joint

Product Number	Weight Lbs.
22-947	2.71

Impact Drive Adapter

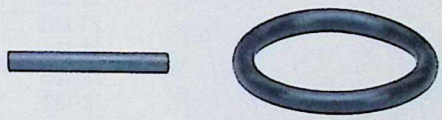
Product Number	Weight Lbs.	Description
22-951	1.79	1" F, 3/4" M
22-952	2.03	1" F, 1-1/2" M
22-954	2.00	1"F, #5M



O-Ring and Retainer Pin

Product Number	Weight Lbs.	Description
22-962	.01	1-3/4" Dia. O-Ring
22-963	.02	1-7/8" Lg. Retainer Pin

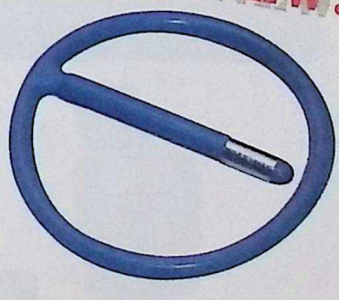
For use with all 1" Drive Impact Sockets and Attachments



Ret Rings

NEW!

Product Number	I. D. of Ring	Hub Dia. Skt.	Use with Armstrong Product
22-964	2	2-1/8	22-024 through 22-042, 22-424 through 22-432, 22-226 through 22-242
22-965	2-1/8	2-1/4 & 2-3/8	22-040 through 22-116, 22-244 through 22-266
23-964	2-7/8	3-1/4	22-268 through 22-276

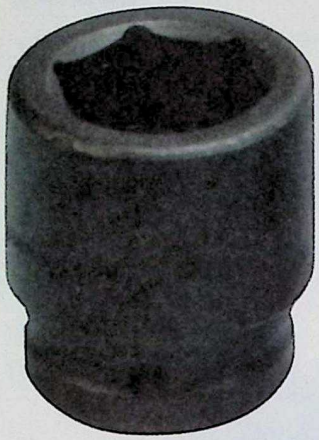


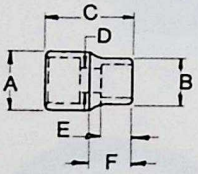
SAFETY NOTICE

NEVER USE HAND SOCKETS ON IMPACT OR POWER APPLICATIONS.

USE IMPACT SOCKETS ONLY ON IMPACT TOOLS.

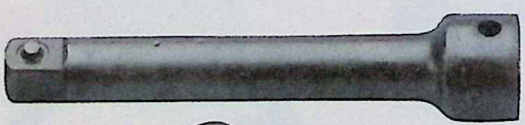
ALWAYS WHERE SAFETY GLASSES AND OBSERVE ALL OTHER RULES WHEN WORKING AROUND IMPACT AND POWER TOOLS.





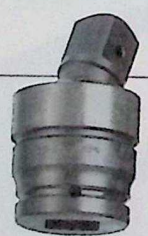
Impact Sockets, 6-Point Opening

Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
23-044	1-3/8	4.75	3.250	2.755	3.125	0.953	0.766	1.125
23-046	1-7/16	4.71	3.250	2.755	3.125	1.016	0.766	1.125
23-048	1-1/2	4.71	3.250	2.880	3.125	1.078	0.875	1.125
23-052	1-5/8	4.76	3.250	3.005	3.125	1.141	0.875	1.125
23-054	1-11/16	4.73	3.250	3.005	3.250	1.203	1.000	1.250
23-058	1-13/16	4.95	3.250	3.140	3.250	1.266	1.000	1.250
23-060	1-7/8	4.80	3.250	3.140	3.250	1.328	1.094	1.250
23-064	2	5.25	3.250	3.250	3.750	1.516	1.094	1.750
23-066	2-1/16	5.76	3.250	3.505	3.875	1.516	1.203	2.000
23-068	2-1/8	5.87	3.250	3.505	3.875	1.516	1.203	2.000
23-070	2-3/16	6.05	3.250	3.505	3.875	1.516	1.203	2.000
23-072	2-1/4	7.17	3.250	3.750	4.000	1.578	1.312	2.125
23-076	2-3/8	7.61	3.250	3.880	4.125	1.578	1.312	2.250
23-078	2-7/16	8.01	3.250	3.880	4.125	1.703	1.391	2.250
23-080	2-1/2	8.15	3.250	4.005	4.250	1.703	1.375	2.375
23-082	2-9/16	7.91	3.250	4.005	4.250	1.766	1.391	2.375
23-084	2-5/8	8.54	3.250	4.130	4.250	1.828	1.500	2.375
23-088	2-3/4	8.52	3.250	4.255	4.375	1.891	1.500	2.500
23-092	2-7/8	9.72	3.250	4.380	4.500	1.953	1.594	2.625
23-094	2-15/16	9.72	3.250	4.505	4.500	1.953	1.609	2.625
23-096	3	9.95	3.250	4.505	4.625	2.141	1.719	2.750
23-100	3-1/8	11.24	3.250	4.755	4.625	2.141	1.719	2.750
23-108	3-3/8	11.87	3.250	5.005	4.625	2.391	1.922	2.750
23-112	3-1/2	12.42	3.250	5.250	4.625	2.391	1.922	2.750
23-116	3-5/8	16.27	3.250	5.505	5.062	2.391	2.141	3.187
23-120	3-3/4	15.51	3.250	5.505	5.062	2.641	2.234	3.187
23-124	3-7/8	14.77	3.250	5.505	5.062	2.641	2.312	3.187
23-128	4	17.19	3.250	5.755	5.375	2.891	2.391	3.500
23-132	4-1/8	16.92	3.250	5.755	5.375	2.891	2.484	3.500
23-136	4-1/4	20.08	3.250	6.125	5.875	3.141	2.562	4.000
23-144	4-1/2	29.40	3.250	6.250	6.000	3.125	2.687	4.125
23-148	4-5/8	28.30	3.250	6.500	6.250	3.281	2.750	4.375
23-160	5	30.82	3.250	7.250	7.250	3.531	3.000	4.875



Impact Extensions

Product Number	Weight Lbs.	Overall Length
23-924	8.75	8
23-928	15.20	15

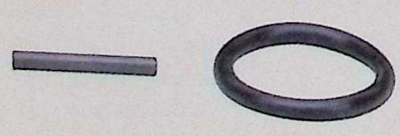


Impact Universal Joint

Product Number	Weight Lbs.
23-947	5.38

Impact Drive Adapter

Product Number	Weight Lbs.	Description
23-951	5.35	1-1/2" F, 1" M



O-Ring and Retainer Pin

Product Number	Weight Lbs.	Description
23-962	.01	2-7/8" Dia. O-Ring
23-963	.02	2-7/8" Lg. Retainer Pin

For use with all 1-1/2" Drive Impact Sockets and Attachments

Always wear eye protection wh...

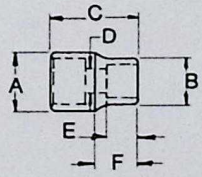
Ret Rings

NEW!

Product Number	I.D. of Ring	Hub Dia. Skt	Use With Armstrong Product
23-964	2-7/8	3-1/4	23-044 through 23-160, 22-268 through 22-276

2-1/2" Drive

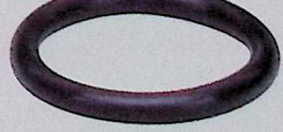
Impact Sockets, 6-Point Opening*



Product Number	Opening Inches	Weight Lbs.	A Drive End	B Wrench End	C Overall Length	D Bolt Clearance	E Wrench Depth	F Length to Shoulder
24-064	2	20.0	5.394	3.622	5.118	2.000	1.375	2.205
24-068	2-1/8	20.2	5.394	3.740	5.118	2.125	1.375	2.205
24-072	2-1/4	20.5	5.394	3.858	5.118	2.250	1.375	2.205
24-076	2-3/8	20.9	5.394	3.937	5.118	2.375	1.575	2.205
24-084	2-5/8	21.3	5.394	4.094	5.118	2.625	1.575	2.205
24-088	2-3/4	21.1	5.394	4.331	5.118	2.750	1.969	2.205
24-094	2-15/16	21.1	5.394	4.646	5.118	2.938	2.165	2.205
24-096	3	20.9	5.394	4.724	5.118	3.000	2.165	2.205
24-100	3-1/8	20.9	5.394	4.921	5.118	3.125	2.362	2.205
24-104	3-1/4	20.7	5.394	5.118	5.118	3.250	2.362	2.205
24-108	3-3/8	20.7	5.394	5.157	5.118	3.375	2.362	2.205
24-112	3-1/2	23.1	5.394	5.354	5.512	3.500	2.559	3.543
24-116	3-5/8	24.2	5.394	5.512	5.512	3.625	2.559	3.543
24-120	3-3/4	24.2	5.394	5.63	5.512	3.750	2.559	3.543
24-124	3-7/8	25.3	5.394	5.827	5.512	3.875	2.559	3.543
24-128	4	25.3	5.394	5.984	5.512	4.000	2.559	3.543
24-132	4-1/8	26.4	5.394	6.142	5.906	4.125	2.756	3.937
24-136	4-1/4	27.5	5.394	6.417	5.906	4.250	2.756	3.937
24-140	4-3/8	28.6	5.394	6.496	5.906	4.375	2.756	3.937
24-144	4-1/2	29.7	5.394	6.575	5.906	4.500	2.756	3.937
24-148	4-5/8	35.2	5.394	6.890	5.906	4.625	2.756	3.937
24-152	4-3/4	36.3	5.394	7.008	5.906	4.750	2.756	3.937
24-156	4-7/8	40.7	5.394	7.323	5.906	4.875	2.756	3.937
24-160	5	45.1	6.299	7.480	6.693	5.000	3.346	4.724
24-164	5-1/8	46.2	6.299	7.677	6.693	5.125	3.346	4.724
24-168	5-1/4	48.4	6.299	7.874	6.693	5.250	3.346	4.724
24-172	5-3/8	50.7	6.299	8.031	6.693	5.375	3.346	4.724
24-176	5-1/2	52.9	6.299	8.189	6.693	5.500	3.346	4.724
24-184	5-3/4	55.1	6.299	8.504	6.693	5.750	3.346	4.724
24-196	6-1/8	60.6	6.299	8.819	7.087	6.125	3.543	5.000
24-208**	6-1/2	72.2	6.299	9.252	7.087	6.500	3.543	5.000
24-220**	6-7/8	79.6	6.299	9.724	7.087	6.875	3.543	5.000
24-244**	7-5/8	110.3	6.299	10.591	8.858	7.625	4.724	6.772
24-256**	8	113.3	6.299	10.629	8.858	8.000	4.724	6.772

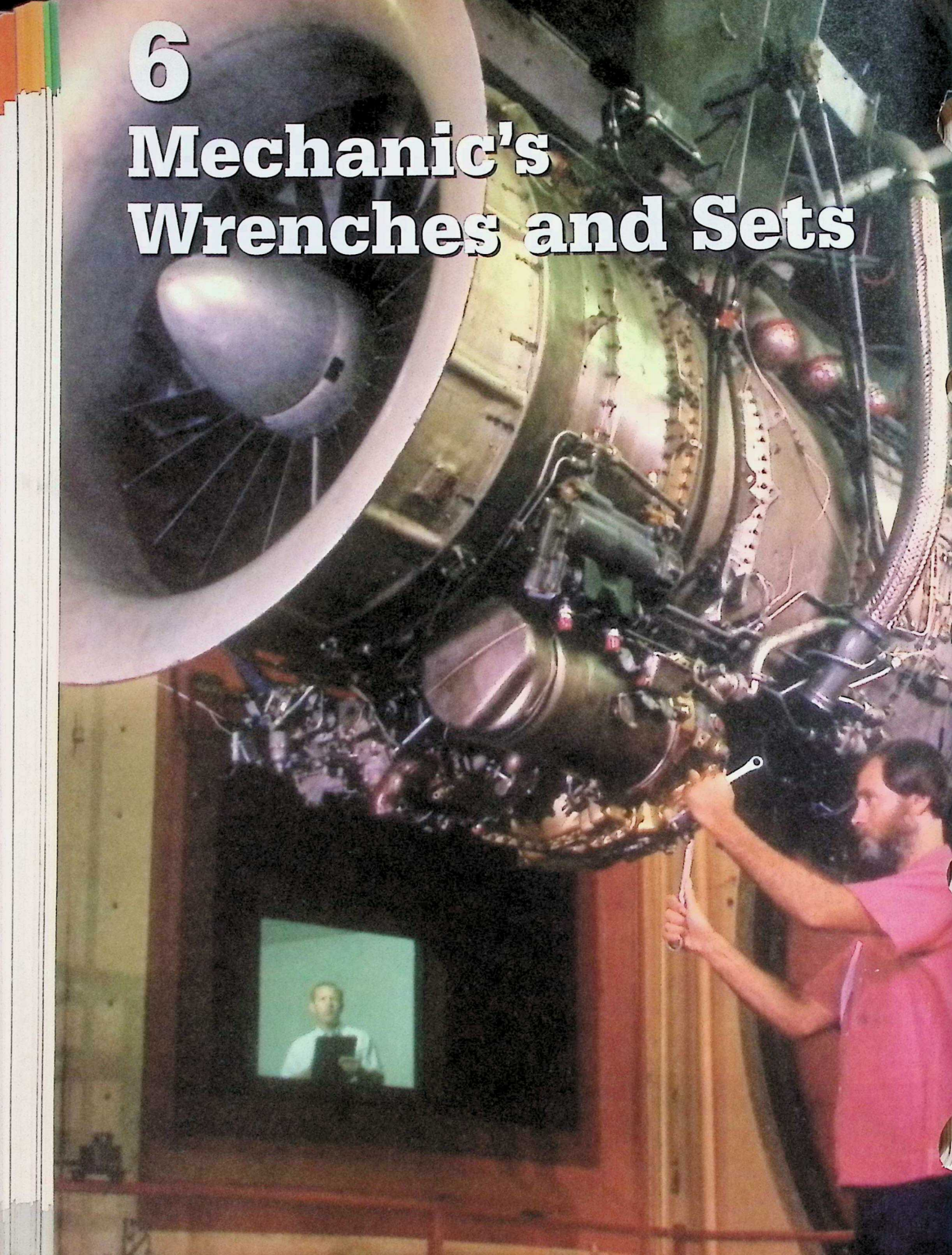
* Imported.
**Non-Stock...Contact us for delivery information.
Sizes other than those listed above, as well as Extra Deep Sockets, are available on special order.

O-Rings and Retainer Pin



Product Number	Weight Lbs.	Description	For Use with Sockets No.
24-961	.02	4-1/2" I.D. O-Ring	24-088 to 24-152
24-962	.03	5-1/2" I.D. O-Ring	24-172 to 24-256
24-963	.05	4-1/2" Lg. Retainer Pin	24-088 to 24-256

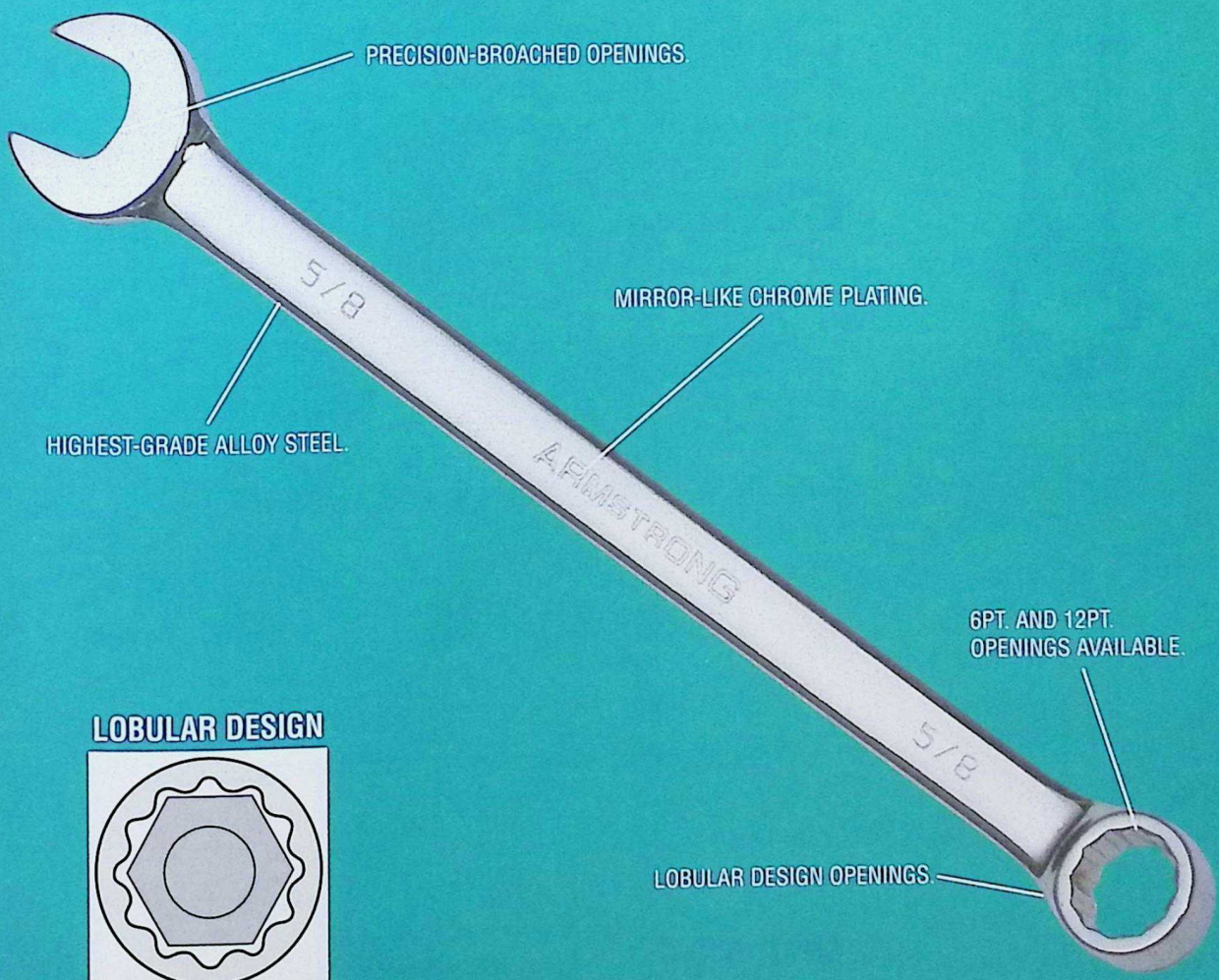
6 Mechanic's Wrenches and Sets



Mechanic's Wrenches and Sets

Armstrong offers professionals one of the most comprehensive lines of industrial quality wrenches and sets available today. All of our wrenches are held to extreme heat-treat tolerances to ensure correct hardness and spring. Many product categories include both fractional and metric and come in several styles: extra short, short, standard and extra-long.

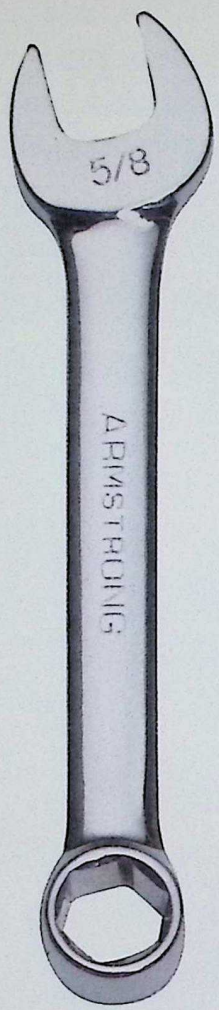
- Combination Wrenches
- Flex Head Combination Wrenches
- Double Open-End Wrenches
- Double Box-End Wrenches (15° and 45°)
- NEW! Open-End Angle Wrenches
- Tappet Wrenches
- Pump Pattern Wrenches
- Ratcheting Box Wrenches
- Flare Nut Wrenches
- Adjustable Wrenches



LOBULAR DESIGN

THE "LOBULAR" DESIGNED OPENING EXERTS FORCE ON FLATS OF FASTENER—PREVENTS ROUNDING OF FASTENER'S CORNERS—REMOVES EVEN WORN FASTENERS.

ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS

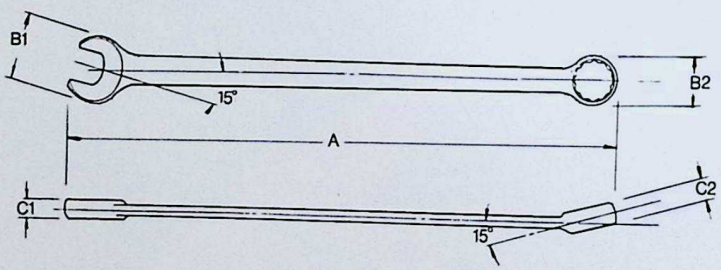


Short Pattern, 6-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
25-004	1/8	.01	3.000	0.281	0.234	0.094	0.109
25-005	5/32	.01	3.000	0.359	0.281	0.125	0.140
25-006	3/16	.02	3.188	0.461	0.344	0.140	0.156
25-007	7/32	.02	3.375	0.510	0.375	0.156	0.171
25-008	1/4	.02	3.500	0.562	0.406	0.171	0.187
25-009	9/32	.03	3.500	0.609	0.437	0.156	0.218
25-010	5/16	.03	4.000	0.719	0.531	0.188	0.281
25-011	11/32	.04	4.000	0.719	0.531	0.188	0.281
25-012	3/8	.06	4.125	0.844	0.625	0.210	0.296
25-014	7/16	.07	5.062	0.969	0.719	0.245	0.344
25-016	1/2	.11	5.500	1.078	0.812	0.250	0.359
25-018	9/16	.15	5.937	1.234	0.875	0.281	0.373
25-020	5/8	.16	6.312	1.375	0.969	0.281	0.406

Short Pattern, 6-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
52-004	4	5	76.2	9.1	7.1	3.2	3.5
52-005	5	9	80.1	11.7	8.7	3.6	4.0
52-083	5.5	11	85.7	13.0	9.5	3.9	4.3
52-006	6	15	88.9	14.3	10.3	4.3	4.8
52-007	7	19	95.3	16.9	12.3	4.8	4.8
52-008	8	20	101.6	17.1	13.1	4.8	6.4



SAFETY NOTICE

ALWAYS PULL ON A WRENCH, NEVER PUSH.

NEVER USE CHEATER BARS/EXTENSIONS.

NEVER SUBSTITUTE METRIC FOR FRACTIONAL TOOLS.

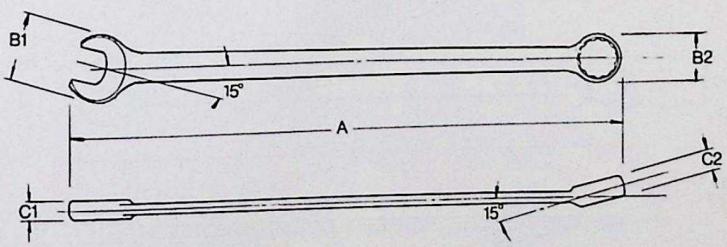
Always wear eye protection when near tool

Short Pattern, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
25-108	1/4	.02	3.500	0.625	0.437	0.156	0.219
25-110	5/16	.03	4.000	0.781	0.531	0.188	0.279
25-111	11/32	.04	4.000	0.719	0.531	0.155	0.281
25-112	3/8	.06	4.250	0.844	0.625	0.210	0.296
25-114	7/16	.07	5.062	0.969	0.719	0.245	0.344
25-116	1/2	.11	5.500	1.078	0.812	0.250	0.359
25-118	9/16	.15	5.937	1.234	0.875	0.281	0.373
25-119	19/32	.14	6.312	1.375	0.984	0.312	0.437
25-120	5/8	.16	6.312	1.375	0.984	0.312	0.437
25-122	11/16	.24	7.125	1.500	1.047	0.312	0.469
25-124	3/4	.26	7.375	1.625	1.156	0.328	0.500
25-125	25/32	.29	7.375	1.625	1.156	0.328	0.500
25-126	13/16	.37	7.500	1.828	1.234	0.375	0.594
25-128	7/8	.49	7.875	1.828	1.328	0.390	0.594
25-130	15/16	.68	8.250	2.000	1.406	0.438	0.625
25-132	1	.76	8.625	2.062	1.500	0.453	0.656

Short Pattern, 12-Point Lobular Opening — METRIC

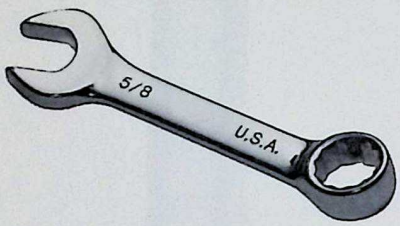
Product Number	Opening mm	Weight G	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
52-109	9	18	101.6	18.3	13.5	3.4	7.1
52-110	10	27	107.9	21.4	15.9	5.3	7.5
52-111	11	32	128.5	24.6	18.3	6.2	8.7
52-112	12	50	139.7	27.4	20.6	6.3	9.1
52-113	13	45	139.7	27.4	20.6	6.3	9.1
52-114	14	68	150.1	31.3	22.2	7.1	9.5
52-115	15	73	160.3	34.9	24.9	7.9	11.1
52-116	16	73	160.3	34.9	24.9	7.9	11.1
52-117	17	109	180.9	38.1	26.6	7.9	11.9
52-118	18	136	187.3	41.2	29.4	8.2	12.7
52-119	19	150	187.3	41.2	29.4	8.2	12.7
52-120	20	209	190.5	46.3	31.3	9.5	15.1
52-121	21	263	190.5	46.3	31.3	9.5	15.1

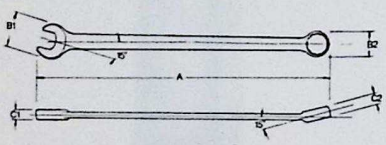


NEW!

Extra Short Pattern, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
25-162	3/8	.06	3.688	0.784	0.575	0.192	0.263
25-164	7/16	.08	4.000	0.909	0.664	0.231	0.294
25-166	1/2	.10	4.188	1.044	0.737	0.228	0.327
25-168	9/16	.14	4.438	1.182	0.834	0.253	0.357
25-170	5/8	.18	4.813	1.303	0.927	0.306	0.381
25-172	11/16	.21	5.000	1.442	0.994	0.308	0.427
25-174	3/4	.28	5.438	1.563	1.061	0.351	0.473





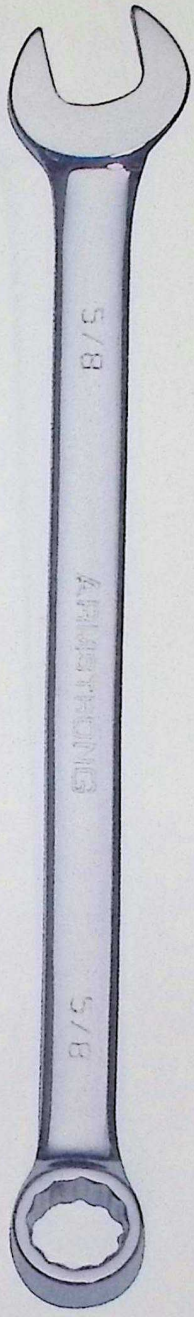
Extra Short Pattern, 12-Point Lobular Opening — METRIC

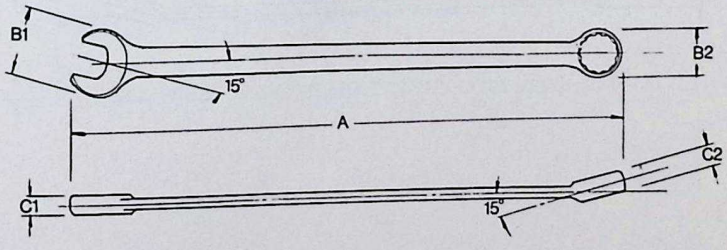
Product Number	Opening mm	Weight G	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
52-160	10	25	96.0	21.1	15.2	5.0	6.6
52-161	11	37	101.6	23.4	16.7	5.7	7.3
52-162	12	48	105.6	25.6	18.0	5.9	7.8
52-163	13	52	108.7	27.8	19.3	6.0	8.3
52-164	14	62	114.3	28.9	20.8	6.9	9.0
52-165	15	71	118.3	30.9	22.1	7.3	9.4
52-166	16	82	122.2	32.9	23.5	7.7	9.8
52-167	17	94	125.4	35.3	24.9	9.0	10.5
52-168	18	98	130.2	37.7	26.4	8.2	11.3
52-169	19	129	138.1	39.4	27.8	8.9	11.7

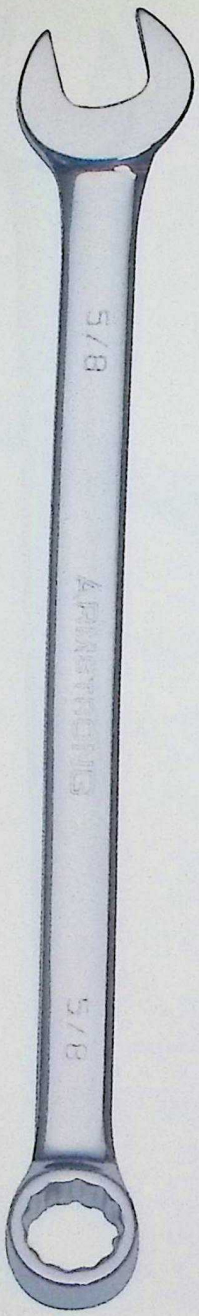
Always wear eye protecti

Long Pattern, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
25-208	1/4	.05	5.000	0.550	0.390	0.140	0.190
25-210	5/16	.07	5.750	0.670	0.490	0.170	0.230
25-211	11/32	.07	5.750	0.670	0.490	0.170	0.230
25-212	3/8	.09	6.500	0.790	0.560	0.190	0.250
25-214	7/16	.14	7.250	0.950	0.670	0.210	0.290
25-216	1/2	.19	8.000	1.040	0.760	0.240	0.330
25-218	9/16	.23	8.750	1.180	0.840	0.260	0.350
25-220	5/8	.25	9.500	1.310	0.940	0.280	0.410
25-222	11/16	.34	10.250	1.430	1.010	0.310	0.440
25-224	3/4	.43	11.000	1.560	1.100	0.340	0.480
25-226	13/16	.65	11.750	1.660	1.190	0.350	0.520
25-228	7/8	.66	12.500	1.810	1.280	0.370	0.550
25-230	15/16	.91	13.250	1.920	1.360	0.390	0.590
25-232	1	1.02	14.000	2.050	1.450	0.410	0.620
25-234	1-1/16	1.23	14.750	2.200	1.550	0.440	0.650
25-236	1-1/8	1.31	15.500	2.280	1.620	0.470	0.680
25-238	1-3/16	1.52	16.310	2.420	1.720	0.490	0.730
25-240	1-1/4	1.76	17.060	2.570	1.820	0.510	0.740
25-242	1-5/16	2.31	20.125	2.703	2.000	0.500	0.844
25-244	1-3/8	2.15	20.125	2.875	2.062	0.500	0.875
25-246	1-7/16	2.55	21.125	3.000	2.187	0.750	0.937
25-248	1-1/2	2.43	21.125	3.062	2.187	0.625	0.906
25-252	1-5/8	3.10	24.125	3.500	2.437	0.640	0.969
25-254	1-11/16	3.26	24.125	3.500	2.437	0.675	0.969
25-256	1-3/4	5.05	25.625	3.687	2.750	0.760	1.109
25-258	1-13/16	6.10	25.625	3.687	2.750	0.781	1.062
25-260	1-7/8	6.00	27.125	4.062	2.937	0.750	1.125
25-264	2	5.94	27.125	4.062	2.937	0.750	1.125
25-266	2-1/16	5.75	27.125	4.000	2.875	0.750	1.062
25-268	2-1/8	9.00	28.000	4.406	3.250	0.844	1.125
25-270	2-3/16	9.31	28.000	4.406	3.250	0.844	1.125
25-272	2-1/4	9.12	28.000	4.406	3.250	0.844	1.125
25-276	2-3/8	13.61	30.000	5.031	3.750	0.938	1.375
25-280	2-1/2	13.89	30.000	5.031	3.750	0.938	1.375
25-282	2-9/16	14.40	32.000	5.562	4.187	1.000	1.500
25-284	2-5/8	14.50	32.000	5.562	4.187	1.000	1.500
25-288	2-3/4	14.60	32.000	5.562	4.187	1.000	1.500

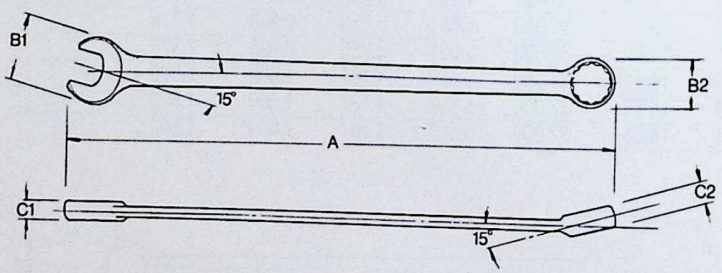






Long Pattern, 12-Point Lobular Opening — METRIC

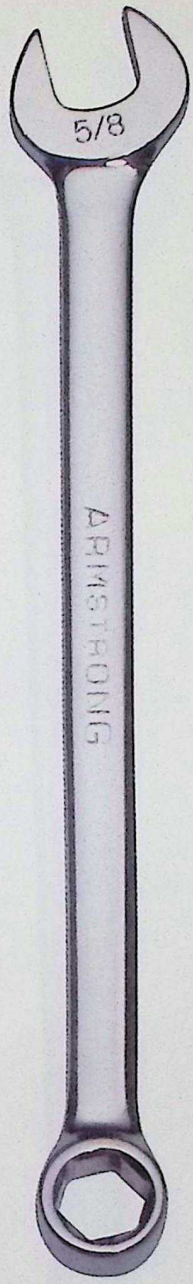
Product Number	Opening mm	Weight G	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
52-206	6	23	127.0	15.9	11.1	4.0	5.6
52-207	7	23	127.0	15.9	11.1	4.0	5.6
52-208	8	32	127.0	15.9	11.1	4.0	5.6
52-209	9	41	155.7	18.5	13.0	4.3	6.1
52-210	10	41	170.9	21.3	15.7	5.1	6.9
52-211	11	64	184.2	24.1	17.0	5.3	7.4
52-212	12	91	195.1	25.4	18.3	5.8	7.9
52-213	13	86	207.0	26.4	19.3	6.1	8.4
52-214	14	104	218.9	30.0	21.3	6.6	8.9
52-215	15	114	230.9	31.8	22.6	6.9	9.7
52-216	16	114	241.3	33.3	23.9	7.1	10.4
52-217	17	159	256.0	34.8	24.9	7.4	10.9
52-218	18	154	267.0	36.3	25.7	7.9	11.2
52-219	19	195	279.4	39.6	27.9	8.6	12.2
52-220	20	274	292.1	41.7	29.0	8.6	12.7
52-221	21	299	304.0	43.7	31.0	9.1	13.7
52-222	22	299	317.5	46.0	32.5	9.4	14.0
52-223	23	418	327.9	48.0	33.5	9.7	14.5
52-224	24	413	338.1	50.0	35.3	9.9	15.0
52-225	25	480	355.6	52.1	36.8	10.4	15.7
52-226	26	567	374.7	55.9	39.4	11.2	16.5
52-227	27	558	374.7	55.9	39.4	11.2	16.5
52-228	28	601	393.7	57.9	41.1	11.9	17.3
52-229	29	592	393.7	57.9	41.1	11.9	17.3
52-230	30	590	414.3	61.5	43.7	12.4	18.5
52-232	32	803	433.3	65.3	46.2	12.6	18.8
52-236	36	1016	511.2	76.2	55.5	15.9	23.8
52-241	41	1439	612.8	88.9	61.9	16.3	24.6
52-246	46	2633	650.9	93.6	69.9	19.1	28.2
52-250	50	2690	689.0	103.2	74.6	19.1	28.6



Always wear eye protection

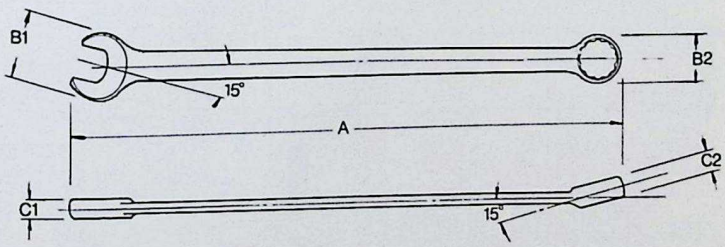
Long Pattern, 6-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
25-308	1/4	.05	5.000	0.550	0.390	0.140	0.190
25-310	5/16	.07	5.750	0.670	0.490	0.170	0.230
25-312	3/8	.09	6.500	0.790	0.560	0.190	0.250
25-314	7/16	.14	7.250	0.950	0.670	0.210	0.290
25-316	1/2	.19	8.000	1.040	0.760	0.240	0.330
25-318	9/16	.23	8.750	1.180	0.840	0.260	0.350
25-320	5/8	.25	9.500	1.310	0.940	0.280	0.410
25-322	11/16	.34	10.250	1.430	1.010	0.310	0.440
25-324	3/4	.43	11.000	1.560	1.100	0.340	0.480
25-326	13/16	.65	11.750	1.660	1.190	0.350	0.520
25-328	7/8	.66	12.500	1.810	1.280	0.370	0.550
25-330	15/16	.91	13.250	1.920	1.360	0.390	0.590
25-332	1	1.02	14.000	2.050	1.450	0.410	0.620



Long Pattern, 6-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
52-306	6	23	127.0	15.9	11.1	4.0	5.6
52-307	7	23	127.0	15.9	11.1	4.0	5.6
52-308	8	32	127.0	15.9	11.1	4.0	5.6
52-309	9	41	155.7	18.5	13.0	4.3	6.1
52-310	10	41	170.9	21.3	15.7	5.1	6.9
52-311	11	64	184.2	24.1	17.0	5.3	7.4
52-312	12	91	195.1	25.4	18.3	5.8	7.9
52-313	13	86	207.0	26.4	19.3	6.1	8.4
52-314	14	104	218.9	30.0	21.3	6.6	8.9
52-315	15	114	230.9	31.8	22.6	6.9	9.7
52-316	16	114	241.3	33.3	23.9	7.1	10.4
52-317	17	159	256.0	34.8	24.9	7.4	10.9
52-318	18	154	267.0	36.3	25.7	7.9	11.2
52-319	19	195	279.4	39.6	27.9	8.6	12.2



SAFETY NOTICE

ALWAYS PULL ON A WRENCH, NEVER PUSH.

NEVER USE CHEATER BARS/EXTENSIONS.

NEVER SUBSTITUTE METRIC FOR FRACTIONAL TOOLS.

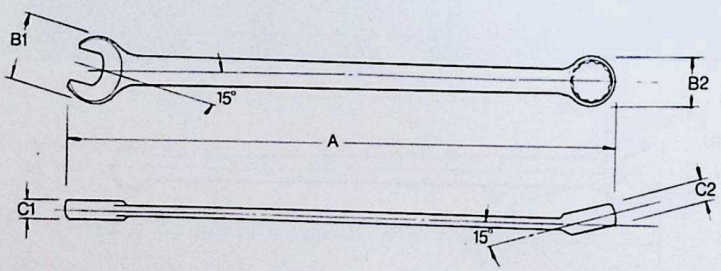
NEW!

Extra Long Pattern, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
25-412	3/8	.16	7.380	0.840	0.620	0.200	0.270
25-414	7/16	.18	8.000	0.950	0.670	0.210	0.290
25-416	1/2	.22	8.810	1.040	0.740	0.240	0.330
25-418	9/16	.33	10.000	1.180	0.840	0.260	0.350
25-420	5/8	.45	11.130	1.310	0.940	0.280	0.410
25-422	11/16	.48	12.000	1.430	1.010	0.310	0.440
25-424	3/4	.71	13.130	1.560	1.100	0.340	0.480
25-426	13/16	.82	14.000	1.660	1.190	0.350	0.520
25-428	7/8	.88	15.000	1.810	1.280	0.370	0.550
25-430	15/16	1.12	16.000	1.920	1.360	0.390	0.590
25-432	1	1.26	17.000	2.050	1.450	0.410	0.620

Extra Long Pattern, 12-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
52-410	10	73	187.5	21.3	15.7	5.1	6.9
52-411	11	82	203.2	24.1	17.0	5.3	7.4
52-412	12	100	223.8	26.4	18.8	6.1	8.4
52-413	13	109	238.3	28.2	20.3	6.4	8.6
52-414	14	150	254.0	30.0	21.3	6.6	8.9
52-415	15	172	268.2	31.8	22.6	6.9	9.7
52-416	16	204	282.7	33.3	23.9	7.1	10.4
52-417	17	218	304.8	36.3	25.7	7.9	11.2
52-418	18	227	319.0	38.1	26.9	8.4	11.7
52-419	19	322	333.5	39.6	27.9	8.6	12.2
52-420	20	372	355.6	42.2	30.2	8.9	13.2
52-421	21	399	381.0	46.0	32.5	9.4	14.0



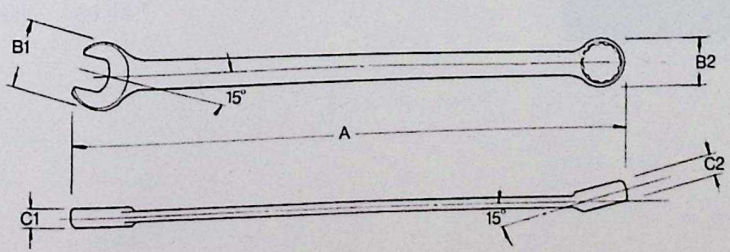
Always wear eye protection when

Long Pattern, 12-Point Lobular Opening, Satin Finish

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
25-458	1/4	.05	5.000	0.550	0.390	0.140	0.190
25-460	5/16	.07	5.750	0.670	0.490	0.170	0.230
25-462	3/8	.09	6.500	0.790	0.560	0.190	0.250
25-464	7/16	.14	7.250	0.950	0.670	0.210	0.290
25-466	1/2	.19	8.000	1.040	0.760	0.240	0.330
25-468	9/16	.23	8.750	1.180	0.840	0.260	0.350
25-470	5/8	.25	9.500	1.310	0.940	0.280	0.410
25-472	11/16	.34	10.250	1.430	1.010	0.310	0.440
25-474	3/4	.43	11.000	1.560	1.100	0.340	0.480
25-476	13/16	.65	11.750	1.660	1.190	0.350	0.520
25-478	7/8	.66	12.500	1.810	1.280	0.370	0.550
25-480	15/16	.91	13.250	1.920	1.360	0.390	0.590
25-482	1	1.02	14.000	2.050	1.450	0.410	0.620
25-484	1-1/16	1.23	14.750	2.200	1.550	0.440	0.650
25-486	1-1/8	1.31	15.500	2.280	1.620	0.470	0.680
25-488	1-3/16	1.52	16.310	2.420	1.720	0.490	0.730
25-490	1-1/4	1.76	17.060	2.570	1.820	0.510	0.740

Long Pattern, 12-Point Lobular Opening, Satin Finish METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
52-456	6	23	127.0	15.9	11.1	4.0	5.6
52-457	7	23	127.0	15.9	11.1	4.0	5.6
52-458	8	23	127.0	15.9	11.1	4.0	5.6
52-459	9	41	155.7	18.5	13.0	4.3	6.1
52-460	10	41	170.9	21.3	15.7	5.1	6.9
52-461	11	41	184.2	24.1	17.0	5.3	7.4
52-462	12	59	195.1	25.4	18.3	5.8	7.9
52-463	13	68	207.0	26.4	19.3	6.1	8.4
52-464	14	73	218.9	30.0	21.3	6.6	8.9
52-465	15	95	230.9	31.8	22.6	6.9	9.7
52-466	16	104	241.3	33.3	23.9	7.1	10.4
52-467	17	113	256.0	34.8	24.9	7.4	10.9
52-468	18	150	267.0	36.3	25.7	7.9	11.2
52-469	19	191	279.4	39.6	27.9	8.6	12.2
52-470	20	277	292.1	41.7	29.0	8.6	12.7
52-471	21	295	304.0	43.7	31.0	9.1	13.7
52-472	22	331	317.5	46.0	32.5	9.4	14.0
52-473	23	413	327.9	48.0	33.5	9.7	14.5
52-474	24	445	338.1	50.0	35.3	9.9	15.0
52-475	25	463	355.6	52.1	36.8	10.4	15.7
52-476	26	508	374.7	55.9	39.4	11.2	16.5
52-477	27	508	374.7	55.9	39.4	11.2	16.5
52-478	28	567	393.7	57.9	41.1	11.9	17.3
52-479	29	567	393.7	57.9	41.1	11.9	17.3
52-480	30	603	414.3	61.5	43.7	12.4	18.5
52-482	32	612	433.3	65.3	46.2	12.6	18.8



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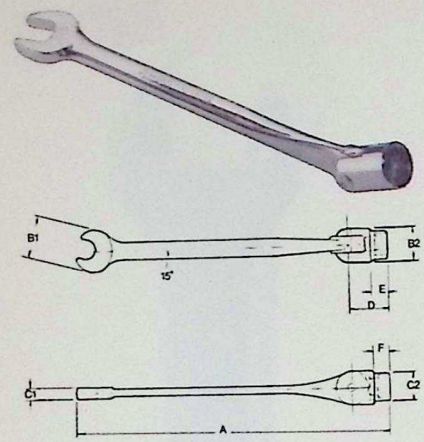


Flex Head, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Hd. Width Wrench	B2 Socket End	C1 Head Thkns.	C2 Socket Nose Dia.	D Wrench Depth	E Length to Shoulder
25-508	1/4	.14	4.718	0.625	0.500	0.180	0.375	0.656	0.250
25-510	5/16	.16	5.562	0.781	0.562	0.195	0.452	0.656	0.250
25-512	3/8	.17	6.343	0.875	0.562	0.210	0.562	0.656	
25-514	7/16	.22	7.125	0.968	0.738	0.245	0.625	0.875	0.375
25-516	1/2	.28	8.281	1.078	0.738	0.260	0.738	0.875	
25-518	9/16	.38	8.703	1.234	0.875	0.286	0.781	1.062	0.500
25-520	5/8	.44	9.484	1.375	0.875	0.296	0.875	1.062	
25-522	11/16	.60	10.265	1.500	0.984	0.312	0.984	1.187	
25-524	3/4	.62	11.046	1.625	1.046	0.344	1.046	1.187	
25-526	13/16	.94	11.875	1.812	1.125	0.375	1.125	1.438	
25-528	7/8	1.10	12.750	1.812	1.187	0.390	1.187	1.500	

Combination Wrench Set 25-603

Contents: 9 Short Pattern Combination Wrenches in Vinyl Roll 29-360. Approximate weight, .32 lbs.

6-Pt. Short Pattern

Product Number	Opening, Inches
25-004	1/8"
25-005	5/32"
25-006	3/16"
25-007	7/32"
25-008	1/4"

Product Number	Opening, Inches
25-009	9/32"
25-010	5/16"
25-011	11/32"
25-012	3/8"

Combination Wrench Set 25-604

Same wrenches as 25-603. Packaged in cardboard box without Vinyl Roll. Approximate weight, .24 lbs.

NEW!

Combination Wrench Set 52-601 METRIC

Contents: 7 Short Pattern Combination Wrenches in Vinyl Roll 29-354.

Approximate weight, .22 lbs. (100 G)

6-Pt. Short Pattern

Product Number	Opening, mm
52-004	4mm
52-005	5mm
52-083	5.5mm
52-006	6mm
52-007	7mm
52-008	8mm

12-Pt. Short Pattern

Product Number	Opening, mm
52-109	9mm

Combination Wrench Set 25-605

Contents: 7 Extra Short Pattern Combination Wrenches in Vinyl Roll No. 29-361.

Approximate Weight, 1.10 lbs

12-Pt. Extra Short

Product Number	Opening, Inches	Product Number	Opening, Inches
25-162	3/8"	25-170	5/8"
25-164	7/16"	25-172	11/16"
25-166	1/2"	25-174	3/4"
25-168	9/16"		

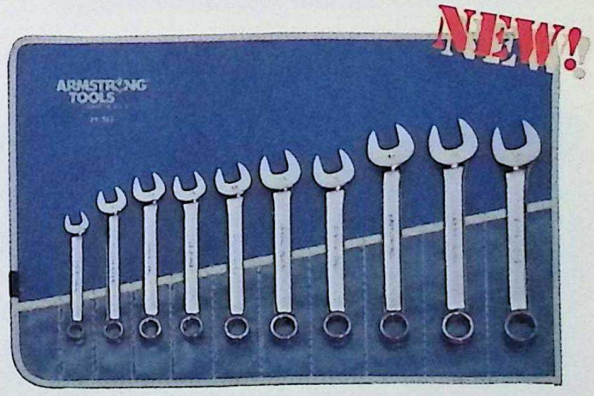
Combination Wrench Set 52-605 METRIC

Contents: 10 Extra Short Combination Wrenches in Vinyl Roll No. 29-361.

Approximate Weight, 1.50 Lbs (702 G)

12-Pt. Extra Short

Product Number	Opening, mm	Product Number	Opening, mm
52-160	10mm	52-165	15mm
52-161	11mm	52-166	16mm
52-162	12mm	52-167	17mm
52-163	13mm	52-168	18mm
52-164	14mm	52-169	19mm



Combination Wrench Set 25-609

Contents: 7 Short Pattern Combination Wrenches in Vinyl Roll 29-344.

Approximate weight, 1.29 lbs.

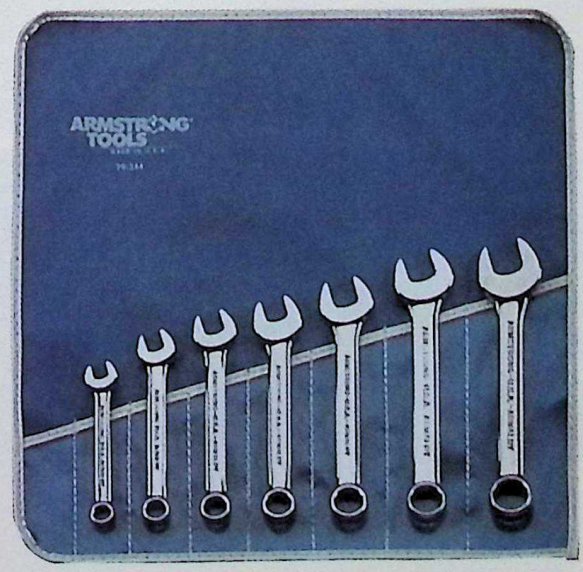
12-Pt. Short Pattern

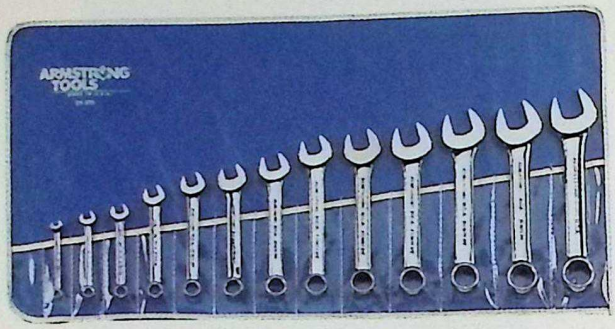
Product Number	Opening, Inches	Product Number	Opening, Inches
25-112	3/8"	25-120	5/8"
25-114	7/16"	25-122	11/16"
25-116	1/2"	25-124	3/4"
25-118	9/16"		

Combination Wrench Set 25-610

Same wrenches as 25-609. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 1.09 lbs.





Combination Wrench Set 25-613

Contents: 13 Short Pattern Combination Wrenches in Vinyl Roll 29-370.

Approximate weight, 3.96 lbs.

12-Pt. Short Pattern

Product Number	Opening, Inches
25-108	1/4"
25-110	5/16"
25-112	3/8"
25-114	7/16"
25-116	1/2"
25-118	9/16"
25-120	5/8"
25-122	11/16"
25-124	3/4"
25-126	13/16"
25-128	7/8"
25-130	15/16"
25-132	1"

Combination Wrench Set 25-614

Same wrenches as 25-613. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 3.65 lbs..

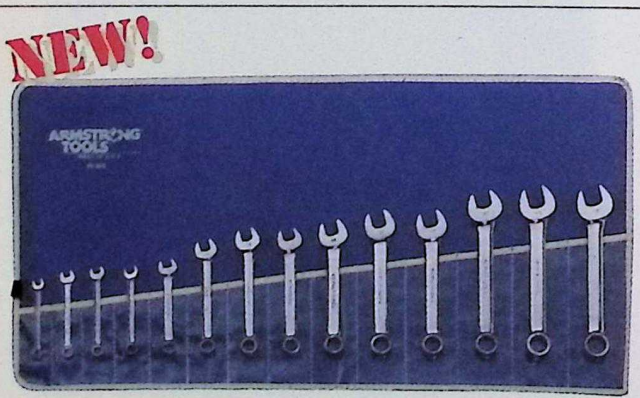
Combination Wrench Set 52-607 METRIC

Contents: 10 Short Pattern Combination Wrenches in Vinyl Roll 29-361.

Approximate weight, 1.91 lbs. (867 G)

12-Pt. Short Pattern

Product Number	Opening, mm
52-110	10mm
52-111	11mm
52-112	12mm
52-113	13mm
52-114	14mm
52-115	15mm
52-116	16mm
52-117	17mm
52-118	18mm
52-119	19mm



Combination Wrench Set 52-619 METRIC

Contents: 14 Short Pattern Combination Wrenches in Vinyl Roll 29-370.

Approximate weight, 2.11 lbs. (958 G)

6-Pt. Short Pattern

Product Number	Opening, mm
52-006	6mm
52-007	7mm
52-008	8mm

12-Pt. Short Pattern

Product Number	Opening, mm
52-109	9mm
52-110	10mm
52-111	11mm
52-112	12mm
52-113	13mm
52-114	14mm
52-115	15mm
52-116	16mm
52-117	17mm
52-118	18mm
52-119	19mm

Always wear eye protection when

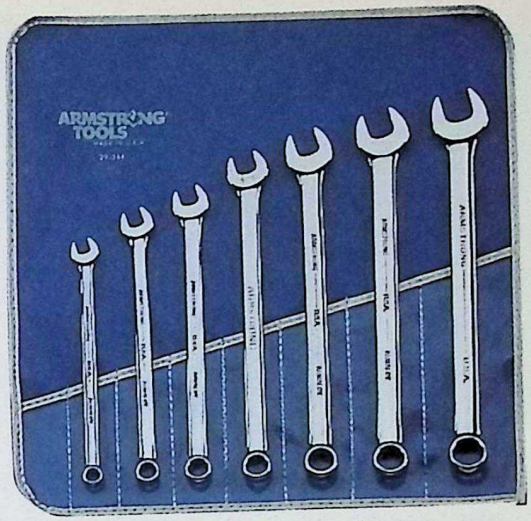
Combination Wrench Set 25-627

Contents: 7 Long Pattern Combination Wrenches in Vinyl Roll 29-344.

Approximate weight, 1.87 lbs.

6-Pt. Long Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
25-312	3/8"	25-320	5/8"
25-314	7/16"	25-322	11/16"
25-316	1/2"	25-324	3/4"
25-318	9/16"		



Combination Wrench Set 25-628

Same wrenches as 25-627. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 1.67 lbs.

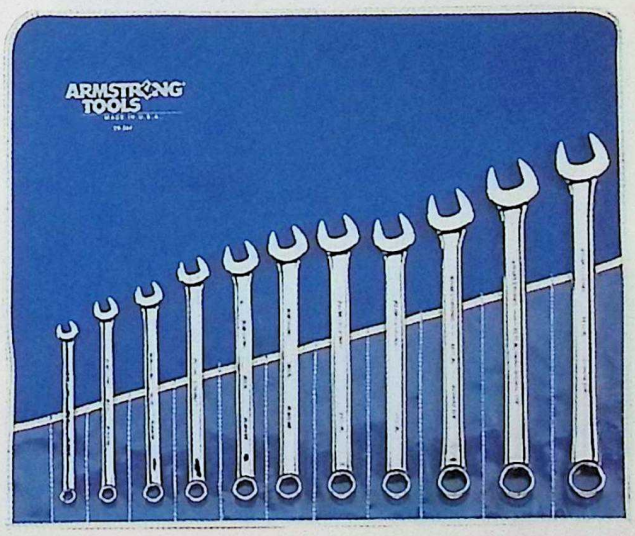
Combination Wrench Set 25-629

Contents: 11 Long Pattern Combination Wrenches in Vinyl Roll 29-364.

Approximate weight, 5.48 lbs.

6-Pt. Long Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
25-312	3/8"	25-324	3/4"
25-314	7/16"	25-326	13/16"
25-316	1/2"	25-328	7/8"
25-318	9/16"	25-330	15/16"
25-320	5/8"	25-332	1"
25-322	11/16"		



Combination Wrench Set 25-630

Same wrenches as 25-629. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 4.99 lbs.

Combination Wrench Set 52-623 METRIC

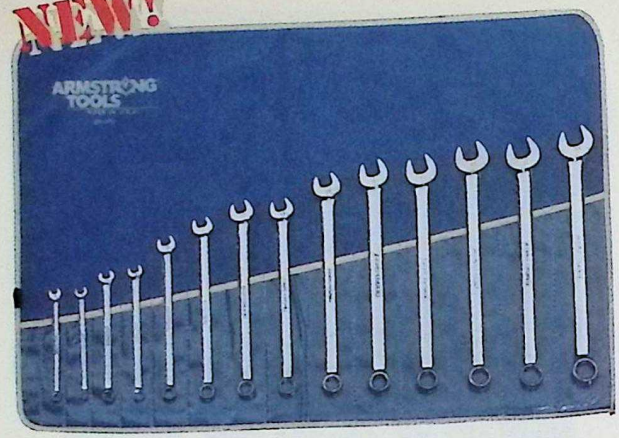
Contents: 10 Long Pattern Combination Wrenches in Vinyl Roll 29-364.

Approximate weight, 2.96 lbs. (1,344 G).

6-Pt. Long Pattern

Product Number	Opening, mm	Product Number	Opening, mm
52-310	10mm	52-315	15mm
52-311	11mm	52-316	16mm
52-312	12mm	52-317	17mm
52-313	13mm	52-318	18mm
52-314	14mm	52-319	19mm

NEW!



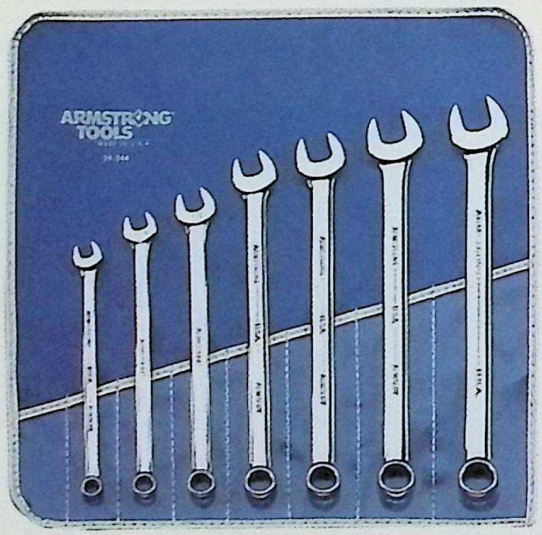
Combination Wrench Set 52-627 — METRIC

Contents: 14 Long Pattern Combination Wrenches in Vinyl Roll 29-373.

Approximate weight, 3.09 lbs. (1,403 G).

6-Pt. Long Pattern

Product Number	Opening, mm	Product Number	Opening, mm
52-306	6mm	52-313	13mm
52-307	7mm	52-314	14mm
52-308	8mm	52-315	15mm
52-309	9mm	52-316	16mm
52-310	10mm	52-317	17mm
52-311	11mm	52-318	18mm
52-312	12mm	52-319	19mm



Combination Wrench Set 25-631

Contents: 7 Long Pattern Combination Wrenches in Vinyl Roll 29-344.

Approximate weight, 1.87 lbs.

12-Pt. Long Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
25-212	3/8"	25-220	5/8"
25-214	7/16"	25-222	11/16"
25-216	1/2"	25-224	3/4"
25-218	9/16"		

Combination Wrench Set 25-632

Same wrenches as 25-631. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 1.67 lbs.

NEW!

Combination Wrench Set 52-631 — METRIC

Contents: 10 Long Pattern Combination Wrenches in Vinyl Roll 29-364.

Approximate weight, 2.96 lbs. (1,344G)

12-Pt. Long Pattern

Product Number	Opening, mm	Product Number	Opening, mm
52-210	10mm	52-215	15mm
52-211	11mm	52-216	16mm
52-212	12mm	52-217	17mm
52-213	13mm	52-218	18mm
52-214	14mm	52-219	19mm

Always wear eye protection when

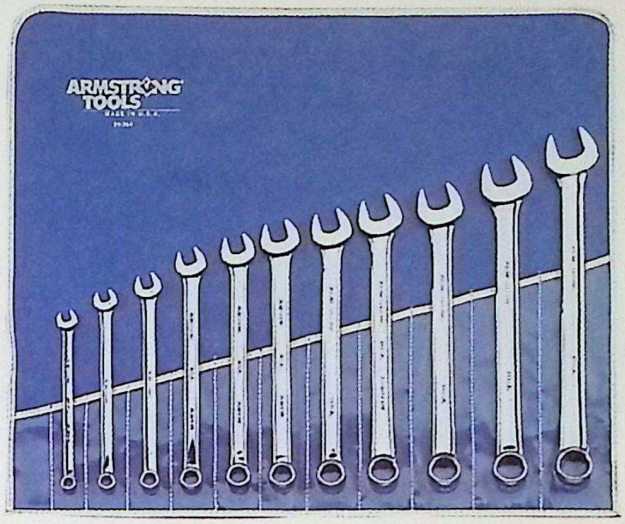
Combination Wrench Set 25-635

Contents: 11 Long Pattern Combination Wrenches in Vinyl Roll 29-364.

Approximate weight, 5.40 lbs.

12-Pt. Long Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
25-212	3/8"	25-224	3/4"
25-214	7/16"	25-226	13/16"
25-216	1/2"	25-228	7/8"
25-218	9/16"	25-230	15/16"
25-220	5/8"	25-232	1"
25-222	11/16"		



Combination Wrench Set 25-636

Same wrenches as 26-635. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 4.91 lbs.

Combination Wrench Set 52-633 METRIC

Contents: 15 Long Pattern Combination Wrenches in Vinyl Roll 29-373.

Approximate weight, 6.23 lbs. (2,828 G)

12-Pt. Long Pattern

Product Number	Opening, mm	Product Number	Opening, mm
52-208	8mm	52-216	16mm
52-209	9mm	52-217	17mm
52-210	10mm	52-218	18mm
52-211	11mm	52-219	19mm
52-212	12mm	52-220	20mm
52-213	13mm	52-221	21mm
52-214	14mm	52-222	22mm
52-215	15mm		

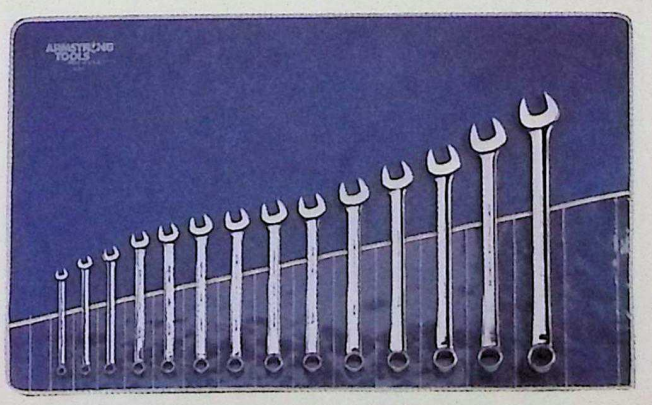
Combination Wrench Set 25-643

Contents: 14 Long Pattern Combination Wrenches in Vinyl Roll 29-377.

Approximate weight, 10.39 lbs.

12-Pt. Long Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
25-212	3/8"	25-226	13/16"
25-214	7/16"	25-228	7/8"
25-216	1/2"	25-230	15/16"
25-218	9/16"	25-232	1"
25-220	5/8"	25-234	1-1/16"
25-222	11/16"	25-236	1-1/8"
25-224	3/4"	25-240	1-1/4"

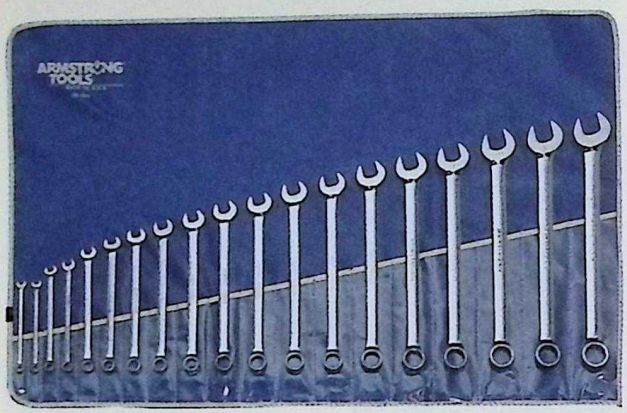


Combination Wrench Set 25-644

Same wrenches as 25-643. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 9.21 lbs.

NEW!



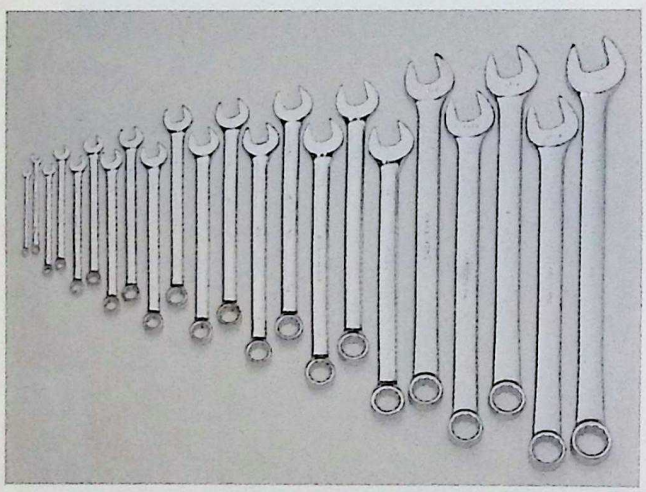
Combination Wrench Set 52-637 METRIC

Contents: 19 Long Pattern Combination Wrenches in Vinyl Roll 29-386.

Approximate weight, 7.26 lbs. (3,296 G)

12-Pt. Long Pattern

Product Number	Opening, mm	Product Number	Opening, mm
52-206	6mm	52-216	16mm
52-207	7mm	52-217	17mm
52-208	8mm	52-218	18mm
52-209	9mm	52-219	19mm
52-210	10mm	52-220	20mm
52-211	11mm	52-221	21mm
52-212	12mm	52-222	22mm
52-213	13mm	52-223	23mm
52-214	14mm	52-224	24mm
52-215	15mm		



Combination Wrench Set 25-652

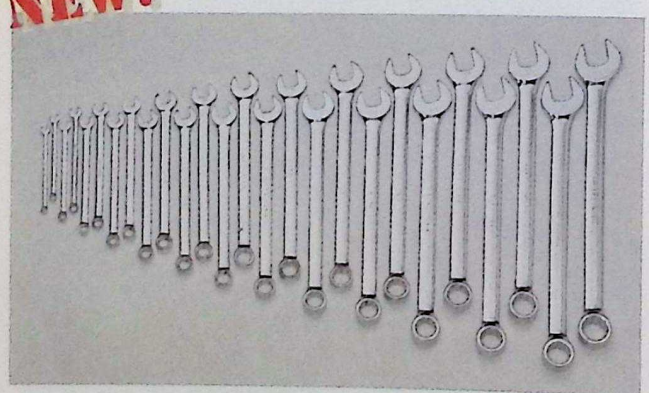
Contents: 22 Long Pattern Combination Wrenches in a cardboard box.

Approximate weight, 23.38 lbs.

12-Pt. Long Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
25-208	1/4"	25-230	15/16"
25-210	5/16"	25-232	1"
25-212	3/8"	25-234	1-1/16"
25-214	7/16"	25-236	1-1/8"
25-216	1/2"	25-238	1-3/16"
25-218	9/16"	25-240	1-1/4"
25-220	5/8"	25-242	1-5/16"
25-222	11/16"	25-244	1-3/8"
25-224	3/4"	25-246	1-7/16"
25-226	13/16"	25-248	1-1/2"
25-228	7/8"	25-252	1-5/8"

NEW!



Combination Wrench Set 52-644 METRIC

Contents: 26 Long Pattern Combination Wrenches in a cardboard box.

Approximate weight, 15.58 lbs. (7,073 G)

12-Pt. Long Pattern

Product Number	Opening, mm	Product Number	Opening, mm
52-206	6mm	52-219	19mm
52-207	7mm	52-220	20mm
52-208	8mm	52-221	21mm
52-209	9mm	52-222	22mm
52-210	10mm	52-223	23mm
52-211	11mm	52-224	24mm
52-212	12mm	52-225	25mm
52-213	13mm	52-226	26mm
52-214	14mm	52-227	27mm
52-215	15mm	52-228	28mm
52-216	16mm	52-229	29mm
52-217	17mm	52-230	30mm
52-218	18mm	52-232	32mm

Always wear eye protection

Combination Wrench Set 25-656

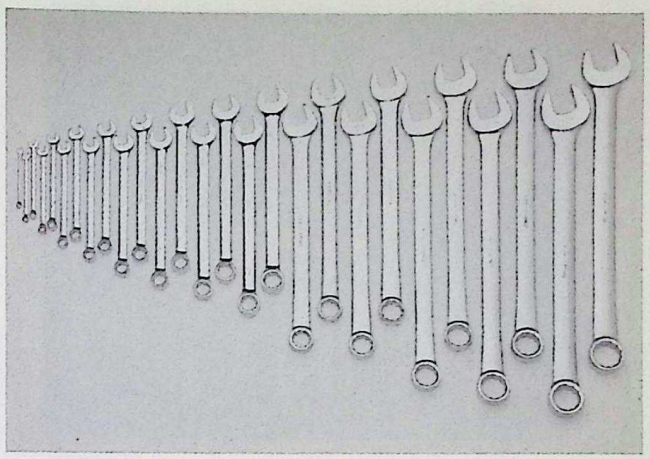
Contents: 27 Long Pattern Combination Wrenches in a cardboard box.

Approximate weight, 49.73 lbs.

12-Pt. Long Pattern

Product Number	Opening, Inches
25-208	1/4"
25-210	5/16"
25-212	3/8"
25-214	7/16"
25-216	1/2"
25-218	9/16"
25-220	5/8"
25-222	11/16"
25-224	3/4"
25-226	13/16"
25-228	7/8"
25-230	15/16"
25-232	1"
25-234	1-1/16"

Product Number	Opening, Inches
25-236	1-1/8"
25-238	1-3/16"
25-240	1-1/4"
25-242	1-5/16"
25-244	1-3/8"
25-246	1-7/16"
25-248	1-1/2"
25-252	1-5/8"
25-254	1-11/16"
25-256	1-3/4"
25-258	1-13/16"
25-260	1-7/8"
25-264	2"



Combination Wrench Set 25-658

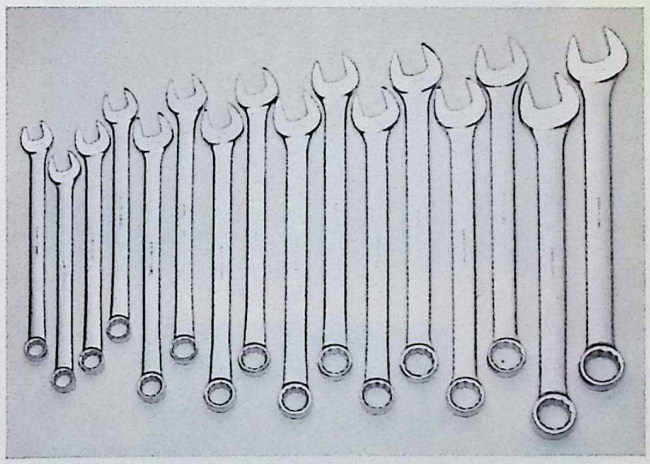
Contents: 16 Long Pattern Combination Wrenches in cardboard box.

Approximate weight, 99.5 lbs.

12-Pt. Long Pattern

Product Number	Opening, Inches
25-242	1-5/16"
25-244	1-3/8"
25-246	1-7/16"
25-248	1-1/2"
25-252	1-5/8"
25-254	1-11/16"
25-256	1-3/4"
25-258	1-13/16"

Product Number	Opening, Inches
25-260	1-7/8"
25-264	2"
25-266	2-1/16"
25-268	2-1/8"
25-270	2-3/16"
25-272	2-1/4"
25-276	2-3/8"
25-280	2-1/2"



Combination Set 25-671

Contents: 7 Extra Long Combination Wrenches in Vinyl Roll No. 29-344.

Approximate Weight, 2.6 Lbs.

12-Pt. Extra Long Pattern

Product Number	Opening, Inches
25-412	3/8"
25-414	7/16"
25-416	1/2"
25-418	9/16"

Product Number	Opening, Inches
25-420	5/8"
25-422	11/16"
25-424	3/4"

NEW!

Combination Wrench Set 25-675

Contents: 11 Extra Long Combination Wrenches in Vinyl Roll No. 29-364.

Approximate Weight, 6.70 Lbs.

12-Pt. Extra Long Pattern

Product Number	Opening, Inches
25-412	3/8"
25-414	7/16"
25-416	1/2"
25-418	9/16"
25-420	5/8"
25-422	11/16"
25-424	3/4"
25-426	13/16"
25-428	7/8"
25-430	15/16"
25-432	1"

NEW!

Combination Wrench Set 52-671 METRIC

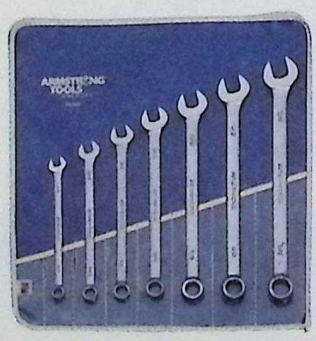
Contents: 10 Extra Long Combination Wrenches in Vinyl Roll 29-364.

Approximate Weight, 5.50 Lbs. (2,450 G)

12-Pt. Extra Long Pattern

Product Number	Opening, mm
52-410	10mm
52-411	11mm
52-412	12mm
52-413	13mm
52-414	14mm
52-415	15mm
52-416	16mm
52-417	17mm
52-418	18mm
52-419	19mm

NEW!



Combination Wrench Set 25-677

Contents: 7 Long Pattern, Satin Finish Wrenches in Vinyl Roll 29-344.

Approximate Weight, 1.80 lbs.

12-Pt. Pattern

Product Number	Opening, Inches
25-462	3/8"
25-464	7/16"
25-466	1/2"
25-468	9/16"
25-470	5/8"
25-472	11/16"
25-474	3/4"

NEW!

Combination Wrench Set 25-678

Contents: 11 Long Pattern, Satin Finish Wrenches in Vinyl Roll 29-364.

Approximate Weight, 5.00 lbs.

12-Pt. Pattern

Product Number	Opening, Inches
25-462	3/8"
25-464	7/16"
25-466	1/2"
25-468	9/16"
25-470	5/8"
25-472	11/16"
25-474	3/4"
25-476	13/16"
25-478	7/8"
25-480	15/16"
25-482	1"

Always wear eye protection when

Combination Wrench Set 25-679

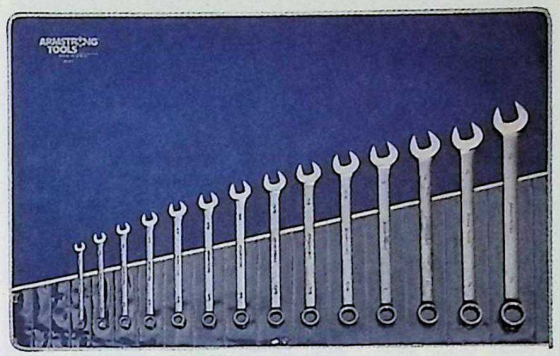
NEW!

Contents: 14 Long Pattern, Satin Finish Wrenches in Vinyl Roll 29-377.

Approximate Weight, 11.00 lbs.

12-Pt. Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
25-462	3/8"	25-476	13/16"
25-464	7/16"	25-478	7/8"
25-466	1/2"	25-480	15/16"
25-468	9/16"	25-482	1"
25-470	5/8"	25-484	1-1/16"
25-472	11/16"	25-486	1-1/8"
25-474	3/4"	25-490	1-1/4"



Combination Wrench Set 52-677 METRIC

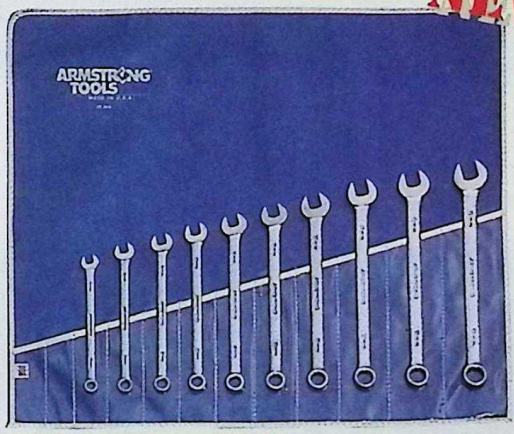
NEW!

Contents: 10 Long Pattern, Satin Finish Wrenches in Vinyl Roll 29-364.

Approximate Weight, 2.96 lbs. (1,344G)

12-Pt. Pattern

Product Number	Opening, mm	Product Number	Opening, mm
52-460	10mm	52-465	15mm
52-461	11mm	52-466	16mm
52-462	12mm	52-467	17mm
52-463	13mm	52-468	18mm
52-464	14mm	52-469	19mm



Combination Wrench Set 52-678 METRIC

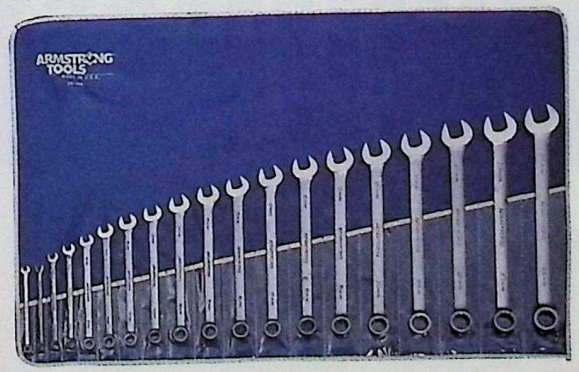
NEW!

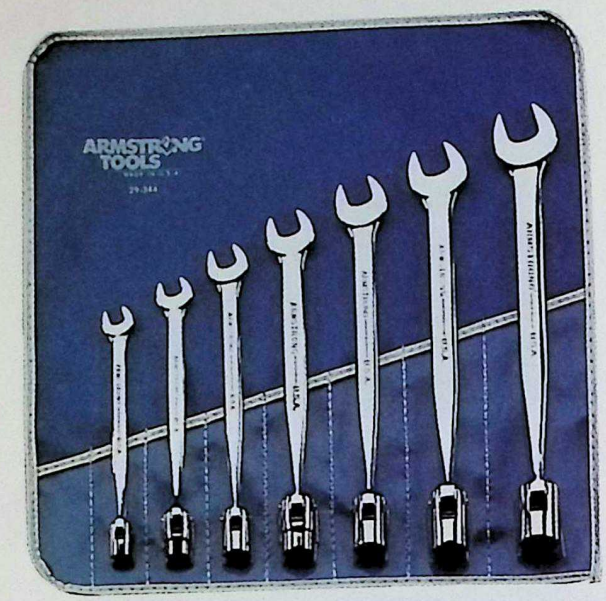
Contents: 19 Long Pattern, Satin Finish Wrenches in Vinyl Roll 29-386.

Approximate Weight, 7.26 lbs. (3,296)

12-Pt. Pattern

Product Number	Opening, mm	Product Number	Opening, mm
52-456	6mm	52-466	16mm
52-457	7mm	52-467	17mm
52-458	8mm	52-468	18mm
52-459	9mm	52-469	19mm
52-460	10mm	52-470	20mm
52-461	11mm	52-471	21mm
52-462	12mm	52-472	22mm
52-463	13mm	52-473	23mm
52-464	14mm	52-474	24mm
52-465	15mm		





Flex Head Combination Wrench Set 25-683

Contents: 7 Flex Head Combination Wrenches in Vinyl Roll 29-344.

Approximate weight, 3.04 lbs.

12-Pt. Standard Pattern

Product Number	Opening, Inches
25-512	3/8"
25-514	7/16"
25-516	1/2"
25-518	9/16"
25-520	5/8"
25-522	11/16"
25-524	3/4"

Flex Head Combination Wrench Set 25-684

Same wrenches as 25-683. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 2.84 lbs.

Flex Head Combination Wrench Set 25-687

Contents: 11 Flex Head Combination Wrenches in Vinyl Roll 29-364.

Approximate weight, 5.15 lbs.

12-Pt. Standard Pattern

Product Number	Opening, Inches
25-508	1/4"
25-510	5/16"
25-512	3/8"
25-514	7/16"
25-516	1/2"
25-518	9/16"
25-520	5/8"
25-522	11/16"
25-524	3/4"
25-526	13/16"
25-528	7/8"

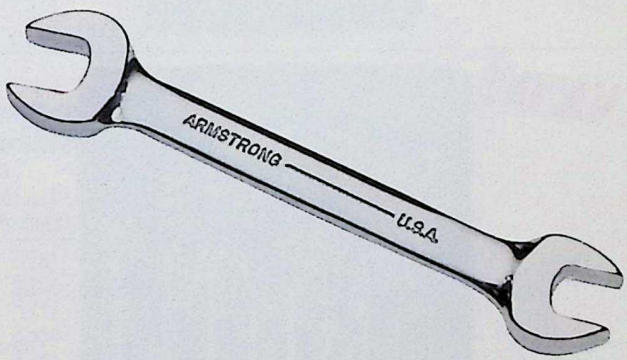
Flex Head Combination Wrench Set 25-688

Same wrenches as 25-687. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 4.85 lbs.

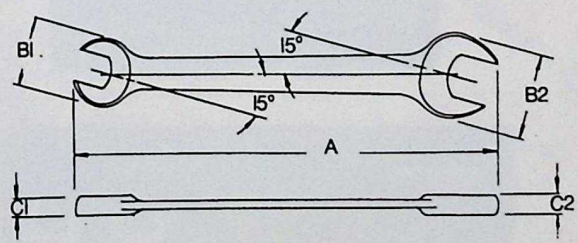
Open End Wrenches

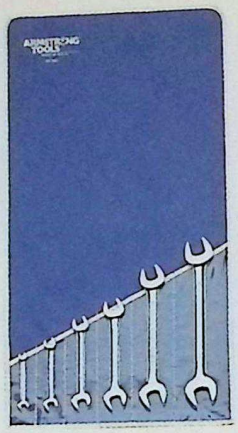
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Head Width	C Head Thickness
26-007	3/16 x 1/4	.02	3.875	0.531	0.453	0.156
26-022	1/4 x 5/16	.02	3.875	0.672	0.562	0.156
26-031	5/16 x 11/32	.05	4.500	0.812	0.687	0.188
26-034	5/16 x 3/8	.05	4.500	0.812	0.687	0.203
26-043	3/8 x 7/16	.07	4.875	0.843	0.968	0.228
26-046	3/8 x 1/2	.08	5.250	0.875	1.078	0.203
26-058	7/16 x 1/2	.10	5.625	0.968	1.078	0.218
26-064	7/16 x 9/16	.13	6.125	0.968	1.234	0.218
26-067	1/2 x 9/16	.13	6.125	1.078	1.234	0.250
26-079	9/16 x 5/8	.16	6.625	1.203	1.343	0.265
26-094	5/8 x 11/16	.21	7.250	1.375	1.500	0.281
26-097	5/8 x 3/4	.26	7.875	1.343	1.594	0.296
26-106	11/16 x 3/4	.30	8.562	1.500	1.625	0.312
26-121	3/4 x 13/16	.41	9.312	1.625	1.750	0.312
26-124	3/4 x 7/8	.45	9.750	1.625	1.875	0.312
26-133	13/16 x 7/8	.39	10.250	1.750	1.875	0.312
26-139	7/8 x 15/16	.54	11.000	1.875	2.000	0.375
26-145	7/8 x 1-1/16	.83	12.000	1.875	2.250	0.406
26-151	15/16 x 1	.70	12.000	1.968	2.031	0.406
26-163	1 x 1-1/8	.78	13.000	2.062	2.375	0.421
26-166	1-1/16 x 1-1/8	1.29	13.000	2.187	2.375	0.421
26-169	1-1/16 x 1-1/4	1.27	14.000	2.281	2.625	0.468
26-172	1-1/8 x 1-1/4	1.22	14.000	2.375	2.562	0.438
26-178	1-1/4 x 1-5/16	2.08	16.375	2.562	2.687	0.490
26-187	1-5/16 x 1-1/2	2.04	16.375	2.703	3.062	0.531
26-190	1-3/8 x 1-7/16	2.05	16.375	2.875	3.062	0.531
26-199	1-7/16 x 1-5/8	2.67	18.250	2.875	3.187	0.593
26-202	1-1/2 x 1-5/8	2.61	18.250	2.875	3.187	0.593



Open End Wrenches — METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Head Width	B2 Head Width	C Head Thickness
53-009	5 x 5.5	9	98.4	11.5	13.5	3.9
53-016	6 x 7	9	98.4	11.5	13.5	3.9
53-019	7 x 8	23	98.4	15.1	17.8	3.9
53-022	8 x 9	23	114.3	17.4	20.6	5.1
53-025	8 x 10	23	114.3	17.4	20.6	5.1
53-034	10 x 11	32	123.8	22.2	24.6	5.1
53-046	11 x 13	45	142.8	24.6	27.4	5.5
53-052	12 x 13	59	155.5	27.4	31.3	6.3
53-055	12 x 14	59	155.5	27.4	31.3	6.3
53-061	13 x 15	73	155.5	27.4	31.3	6.3
53-064	13 x 17	95	168.2	31.3	34.9	6.7
53-067	14 x 15	91	168.2	31.3	34.9	6.7
53-082	16 x 17	91	184.1	34.9	38.1	7.1
53-085	16 x 18	109	200.0	34.9	41.3	7.5
53-091	17 x 19	122	200.0	34.9	41.3	7.5
53-096	18 x 19	113	217.5	38.1	41.3	7.9
53-106	19 x 22	204	247.6	41.3	47.6	7.9
53-115	20 x 22	190	247.6	41.3	47.6	7.9
53-119	21 x 23	254	260.3	43.6	47.6	7.9
53-127	22 x 24	245	279.4	47.6	50.8	9.5
53-142	24 x 26	318	304.8	47.6	57.1	7.9
53-145	24 x 27	376	304.8	47.6	57.1	10.3
53-162	27 x 30	568	355.6	60.3	65.1	11.9
53-175	30 x 32	557	355.6	60.3	65.1	11.9





Open End Wrench Set 26-274

Contents: 6 Open End Wrenches in Vinyl Roll 29-342.

Approximate weight, 1.75 lbs.

Product Number	Opening, Inches	Product Number	Opening, Inches
26-022	1/4" x 5/16"	26-094	5/8" x 11/16"
26-043	3/8" x 7/16"	26-121	3/4" x 13/16"
26-067	1 /2" x 9/16"	26-139	7/8" x 15/16"

Open End Wrench Set 26-275

Same Wrenches as 26-274. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 1.38 lbs.

NEW!

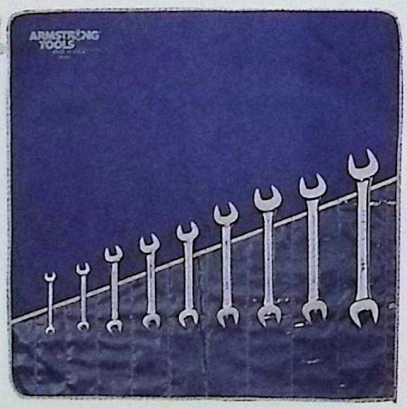
Open End Wrench Set 53-270 METRIC

Contents: 6 Open End Wrenches in Vinyl Roll 29-344.

Approximate weight, 1.10 lbs. (499 G)

Product Number	Opening, mm	Product Number	Opening, mm
53-022	8 x 9	53-067	14 x 15
53-034	10 x 11	53-082	16 x 17
53-052	12 x 13	53-096	18 x 19

NEW!

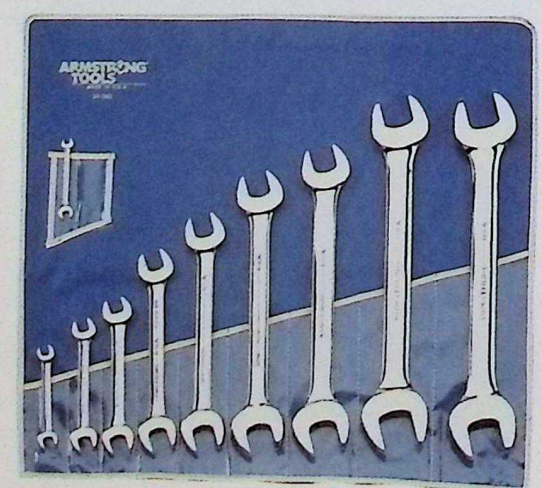


Open End Wrench Set 53-274 METRIC

Contents: 9 Open End Wrenches in Vinyl Roll 29-357.

Approximate weight, 3.29 lbs. (1,494 G)

Product Number	Opening, mm	Product Number	Opening, mm
53-022	8 x 9	53-096	18 x 19
53-034	10 x 11	53-115	20 x 22
53-052	12 x 13	53-119	21 x 23
53-067	14 x 15	53-142	24 x 26
53-082	16 x 17		



Open End Wrench Set 26-282

Contents: 10 Open End Wrenches in Vinyl Roll 29-362.

Approximate weight, 8.01 lbs.

Product Number	Opening, Inches	Product Number	Opening, Inches
26-022	1/4" x 5/16"	26-139	7/8" x 15/16"
26-043	3/8" x 7/16"	26-163	1" x 1-1/8"
26-067	1/2" x 9/16"	26-169	1-1/16" x 1-1/4"
26-094	5/8" x 11/16"	26-187	1-5/16" x 1-1/2"
26-121	3/4" x 13/16"	26-190	1-3/8" x 1-7/16"

Open End Wrench Set 26-283

Same Wrenches as 26-282. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 7.52 lbs.

Open End Wrench Set 53-284 METRIC

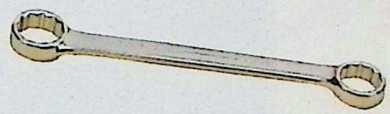
Contents: 11 Open End Wrenches in Vinyl Roll 29-362.

Approximate weight, 4.07 lbs. (1,848 G)

Product Number	Opening, mm	Product Number	Opening, mm
53-016	6 x 7	53-096	18 x 19
53-022	8 x 9	53-115	20 x 22
53-034	10 x 11	53-119	21 x 23
53-052	12 x 13	53-142	24 x 26
53-067	14 x 15	53-162	27 x 30
53-082	16 x 17		

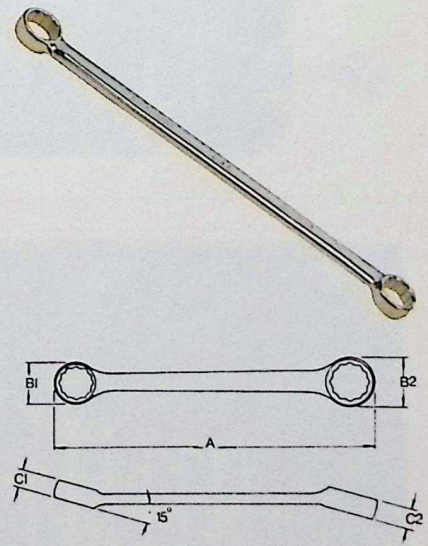
15° Box Wrenches, Short Pattern 12-Point Lobular Opening

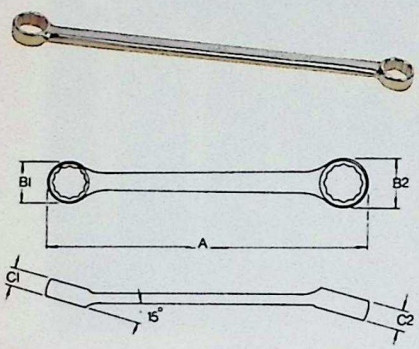
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Box End Width	B2 Box End Width	C1 Box End Thickness	C2 Box End Thickness
26-543	3/8 x 7/16	.05	4.750	0.560	0.656	0.281	0.281
26-558	7/16 x 1/2	.10	5.000	0.750	0.656	0.312	0.281
26-567	1/2 x 9/16	.09	5.500	0.750	0.812	0.312	0.343
26-579	9/16 x 5/8	.12	6.000	0.828	0.937	0.343	0.375



15° Box Wrenches, Long Pattern 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Box End Width	B2 Box End Width	C1 Box End Thickness	C2 Box End Thickness
26-643	3/8 x 7/16	.12	7.375	0.593	0.656	0.281	0.281
26-658	7/16 x 1/2	.15	7.750	0.687	0.781	0.328	0.328
26-667	1/2 x 9/16	.17	8.250	0.750	0.875	0.312	0.343
26-679	9/16 x 5/8	.30	9.250	0.843	0.937	0.375	0.437
26-694	5/8 x 11/16	.43	10.500	0.937	1.062	0.437	0.437
26-697	5/8 x 3/4	.44	10.500	0.937	1.125	0.437	0.437
26-706	11/16 x 3/4	.44	11.000	1.062	1.156	0.468	0.500
26-724	3/4 x 7/8	.58	12.000	1.125	1.250	0.500	0.500
26-733	13/16 x 7/8	.64	12.750	1.187	1.250	0.515	0.531
26-739	7/8 x 15/16	.84	13.750	1.375	1.437	0.593	0.625
26-745	7/8 x 1-1/16	1.17	15.500	1.375	1.531	0.562	0.609
26-751	15/16 x 1	.75	13.750	1.375	1.437	0.593	0.625
26-754	15/16 x 1-1/16	.97	15.500	1.375	1.531	0.562	0.609
26-763	1 x 1-1/8	1.30	16.625	1.500	1.562	0.656	0.703
26-766	1-1/16 x 1-1/8	1.22	16.625	1.500	1.562	0.656	0.703
26-769	1-1/16 x 1-1/4	1.59	17.250	1.531	1.812	0.625	0.718
26-775	1-1/8 x 1-5/16	1.61	17.250	1.593	1.875	0.625	0.718
26-778	1-1/4 x 1-5/16	2.41	19.000	1.843	2.000	0.750	0.812
26-793	1-7/16 x 1-1/2	2.87	21.500	2.093	2.250	0.937	1.000
26-799	1-7/16 x 1-5/8	2.89	21.500	2.093	2.312	0.937	1.000

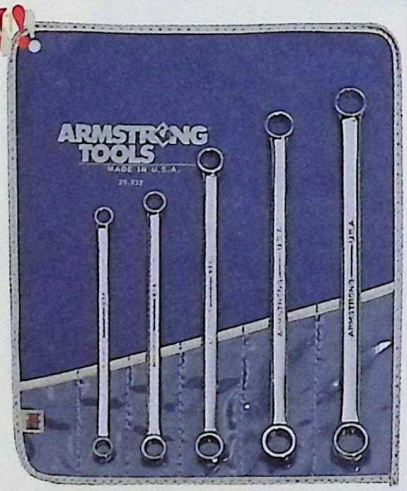




15° Box Wrenches – Long Pattern, 12-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Box End Width	B2 Box End Width	C1 Box End Thickness	C2 Box End Thickness
53-616	6 x 7	54	179.3	11.2	13.5	6.4	6.4
53-622	8 x 9	68	194.0	14.3	16.7	7.1	7.1
53-634	10 x 11	54	187.3	15.5	17.1	7.1	7.1
53-652	12 x 13	68	209.5	19.4	22.6	7.9	8.7
53-661	13 x 15	77	209.5	19.4	22.6	7.9	8.7
53-667	14 x 15	136	234.9	21.4	23.8	9.5	11.1
53-682	16 x 17	186	266.7	23.8	28.6	11.1	11.1
53-691	17 x 19	200	279.4	26.2	29.4	11.9	12.7
53-696	18 x 19	104	279.4	26.2	29.4	11.9	12.7
53-715	20 x 22	222	323.6	30.2	32.1	13.5	14.3
53-719	21 x 23	291	323.6	30.2	32.1	13.5	14.3
53-727	22 x 24	381	349.2	34.9	36.5	14.3	15.1
53-742	24 x 26	358	390.4	33.9	38.5	14.3	15.3
53-762	27 x 30	572	414.3	38.9	47.6	15.9	18.2
53-775	30 x 32	725	495.3	44.4	46.8	19.0	20.6

NEW!



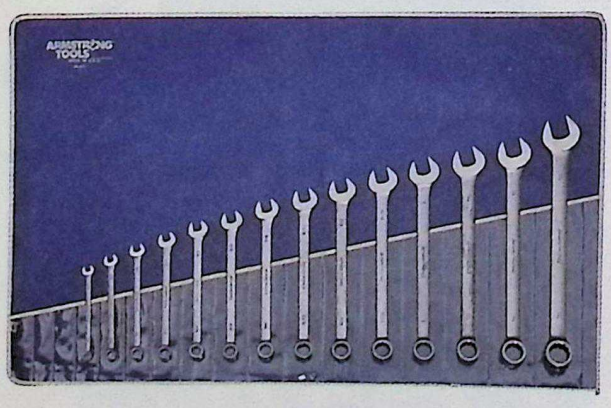
15° Box Wrench Set 53-840 — METRIC

Contents: 5 Long Pattern 15° Box Wrenches in Vinyl Roll 29-332.

Approximate weight, 1.60 lbs. (726 G).

12-Point Long Pattern

Product Number	Opening, mm	Product Number	Opening, mm
53-634	10 x 11	53-682	16 x 17
53-652	12 x 13	53-696	18 x 19
53-667	14 x 15		



15° Box Wrench Set 26-850

Contents: 6 Long Pattern 15° Box Wrenches in Vinyl Roll 29-342.

Approximate weight, 3.87 lbs.

12-Point Long Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
26-658	7/16" x 1/2"	26-733	13/16" x 7/8"
26-679	9/16" x 5/8"	26-751	15/16" x 1"
26-706	11/16" x 3/4"	26-766	1-1/16" x 1-1/8"

15° Box Wrench Set 26-851

Same Wrenches as 26-850. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 3.50 lbs.

Always wear eye prot...

15° Box Wrench Set 53-860 — Metric

Contents: 9 Long Pattern 15° Box Wrenches in Vinyl Roll 29-357.

Approximate weight, 4.26 lbs. (1,934G)

12-Point Long Pattern

Product Number	Opening, mm	Product Number	Opening, mm
53-622	8 x 9	53-696	18 x 19
53-634	10 x 11	53-715	20 x 22
53-652	12 x 13	53-719	21 x 23
53-667	14 x 15	53-742	24 x 26
53-682	16 x 17		

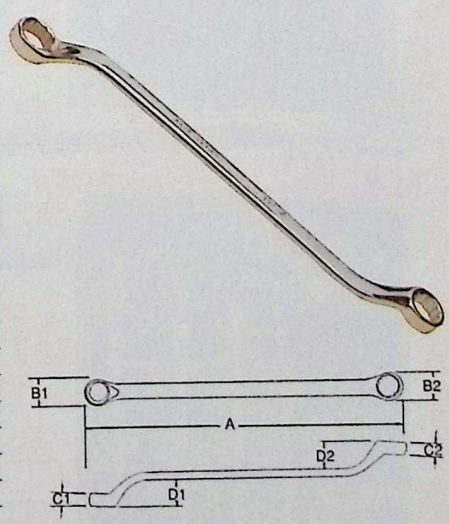
45° Box Wrenches — Miniature Pattern, 6-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Box End Width	B2 Box End Width	C1 Box End Thkns	C2 Box End Thkns	D1 Offset H	D1 Offset C	D2 Offset H	D2 Offset C
27-001	3/16 x 13/64	.02	3.187	0.359	0.375	0.156	0.171	0.437	0.437	0.437	0.468
27-016	7/32 x 15/64	.02	3.187	0.375	0.406	0.156	0.171	0.437	0.437	0.437	0.468
27-019	1/4 x 9/32	.06	3.812	0.437	0.484	0.218	0.250	0.531	0.640	0.593	0.687
27-031	5/16 x 11/32	.05	3.812	0.484	0.531	0.218	0.250	0.531	0.640	0.593	0.687

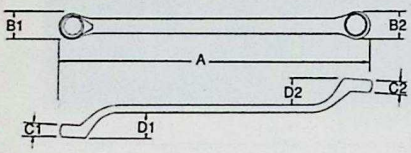
45° Box Wrenches — Short Pattern, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Box End Width	B2 Box End Width	C1 Box End Thkns	C2 Box End Thkns	D1 Offset H	D1 Offset C	D2 Offset H	D2 Offset C
27-143	3/8 x 7/16	.06	4.500	0.625	0.687	0.281	0.328	0.812	0.875	0.875	0.875
27-158	7/16 x 1/2	.12	5.500	0.750	0.843	0.343	0.375	0.937	1.156	1.000	1.296
27-167	1/2 x 9/16	.16	5.500	0.750	0.843	0.343	0.375	0.937	1.156	1.000	1.296
27-194	5/8 x 11/16	.15	6.062	0.921	1.000	0.375	0.406	0.812	1.531	0.812	1.531
27-206	11/16 x 3/4	.20	6.687	0.984	1.062	0.437	0.437	0.812	1.750	0.875	1.843

45° Box Wrenches — Long Pattern, 12-Point Lobular Opening



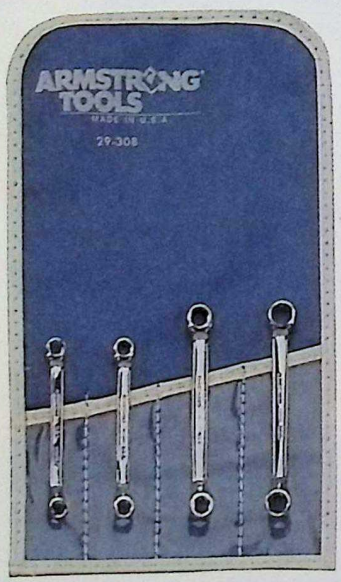
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Box End Width	B2 Box End Width	C1 Box End Thkns	C2 Box End Thkns	D1 Offset H	D1 Offset C	D2 Offset H	D2 Offset C
27-334	5/16 x 3/8	.08	7.500	0.500	0.578	0.234	0.250	0.500	0.875	0.500	0.875
27-343	3/8 x 7/16	.13	7.750	0.593	0.656	0.312	0.312	0.625	1.062	0.625	1.062
27-358	7/16 x 1/2	.17	8.250	0.687	0.781	0.312	0.328	0.718	1.312	0.750	1.437
27-364	7/16 x 9/16	.19	8.500	0.687	0.843	0.312	0.343	0.719	1.343	0.844	1.562
27-367	1/2 x 9/16	.19	8.750	0.781	0.875	0.328	0.343	0.750	1.437	0.844	1.562
27-379	9/16 x 5/8	.30	9.750	0.843	0.937	0.343	0.375	0.812	1.593	0.907	1.687
27-394	5/8 x 11/16	.33	10.375	0.968	1.046	0.390	0.421	0.875	1.312	0.937	1.343
27-397	5/8 x 3/4	.45	10.750	0.968	1.156	0.375	0.484	0.906	1.687	1.000	1.875
27-406	11/16 x 3/4	.47	11.375	1.031	1.156	0.437	0.484	0.907	1.750	1.000	1.875
27-424	3/4 x 7/8	.68	12.750	1.125	1.281	0.500	0.562	1.000	1.875	1.063	2.125
27-439	7/8 x 15/16	.89	14.500	1.312	1.375	0.562	0.593	1.062	2.375	1.125	2.062
27-451	15/16 x 1	1.00	14.500	1.375	1.437	0.593	0.625	1.250	2.500	1.250	2.500
27-466	1-1/16x1-1/8	1.64	17.000	1.500	1.562	0.687	0.718	1.375	2.375	1.375	1.875
27-469	1-1/16x1-1/4	1.77	17.000	1.656	2.000	0.718	0.750	1.437	2.593	1.437	2.562
27-475	1-1/8x1-5/16	1 75	17.000	1.656	2.000	0.718	0.750	1.437	2.593	1.437	2.562
27-481	1-1/4x1-7/16	1.75	19.000	1.812	2.062	0.750	0.812	1.563	2.937	1.625	3.187



45° Box Wrenches –Long Pattern, 12-Point Lobular Opening — METRIC

Product Number	Opening mm.	Weight G	A Overall Length	B1 Box End Width	B2 Box End Width	C1 Box End Thkns	C2 Box End Thkns	D1 Offset H	D1 Offset C	D2 Offset H	D2 Offset C
54-016*	6 x 7	23	96.8	11.1	11.9	5.5	6.3	13.5	16.2	15.0	17.4
54-322	8 x 9	36	190.5	13.1	15.1	5.9	6.3	12.7	22.2	12.7	22.2
54-334	10 x 11	59	197.8	15.9	17.5	7.9	7.9	15.8	26.9	15.8	26.9
54-352	12 x 13	77	222.2	19.8	22.2	8.3	8.7	19.1	36.5	21.4	39.6
54-355	12 x 14	86	222.2	19.8	22.2	8.3	8.7	19.1	36.5	21.4	39.6
54-361	13 x 15	136	222.2	19.8	22.2	8.3	8.7	19.1	36.5	21.4	39.6
54-364	13 x 17	154	263.5	21.4	25.4	9.9	10.7	22.2	33.3	23.8	34.1
54-367	14 x 15	159	248.0	23.0	23.8	9.9	10.7	22.2	33.3	23.8	34.1
54-382	16 x 17	199	273.0	23.8	26.2	9.5	12.3	23.0	42.8	25.4	47.6
54-385	16 x 18	195	273.0	23.8	27.0	9.5	12.3	23.0	42.8	25.4	47.6
54-391	17 x 19	218	289.0	26.2	28.6	11.1	12.3	23.0	44.4	25.4	47.6
54-396	18 x 19	267	289.0	27.0	28.6	11.1	12.3	23.0	44.4	25.4	47.6
54-406	19 x 22	318	330.2	28.6	32.5	13.1	14.7	25.4	47.6	27.0	53.9
54-415	20 x 22	308	336.5	30.5	32.9	13.1	14.3	25.4	46.0	26.9	47.6
54-418	21 x 22	345	346.0	32.5	34.9	14.3	15.1	25.4	46.0	26.9	47.6
54-419	21 x 23	311	337.0	32.5	34.9	14.3	15.1	25.4	46.0	26.9	47.6
54-433	23 x 24	390	393.7	34.9	38.5	15.9	17.5	31.7	63.5	31.7	63.5
54-445	24 x 27	508	457.2	42.9	47.6	18.3	19.0	50.4	32.6	58.8	35.5
54-462	27 x 30	745	432.0	31.0	32.5	13.1	14.3	36.5	65.8	36.5	65.1
54-475	30 x 32	803	317.5	31.0	32.5	13.1	14.3	36.5	65.8	36.5	65.1

*Has 6-point openings in both box ends.



45° Box Wrench Set 27-563

Contents: 4 Miniature 45° Box Wrenches in Vinyl Roll 29-308.

Approximate weight, .23 lbs.

6-Point Miniature Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
27-001	3/16" x 13/64"	27-019	1/4" x 9/32"
27-016	7/32" x 15/64"	27-031	5/16" x 11/32"

NEW!

45° Box Wrench Set 54-568 — METRIC

Contents: 5 Long Pattern 45° Box Wrenches in Vinyl Roll 29-332.

Approximate weight, 1.85 lbs. (840 G).

12-Point Long Pattern

Product Number	Opening, mm	Product Number	Opening, mm
54-334	10 x 11	54-382	16 x 17
54-352	12 x 13	54-396	18 x 19
54-367	14 x 15		

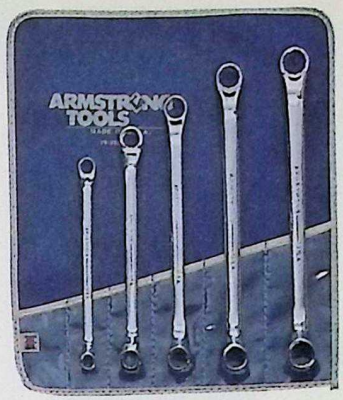
Always wear

45° Box Wrench Set 27-568

Contents: 5 Long Pattern 45° Box Wrenches in Vinyl Roll 29-340.
Approximate weight, 2.72 lbs.

12-Point Long Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
27-343	3/8" x 7/16"	27-424	3/4" x 7/8"
27-367	1/2" x 9/16"	27-451	15/16" x 1"
27-394	5/8" x 11/16"		



45° Box Wrench Set 27-569

Same Wrenches as 27-568. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 2.33 lbs.

45° Box Wrench Set 54-572 METRIC

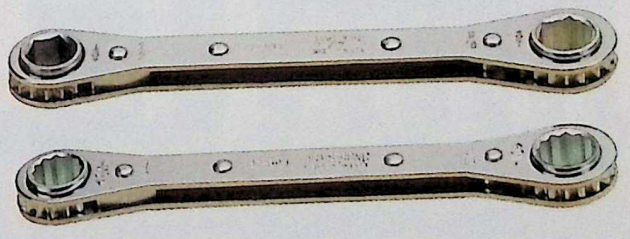
Contents: 9 Long Pattern 45° Box Wrenches in Vinyl Roll 29-357.
Approximate weight, 5.15 lbs. (2,338 G).

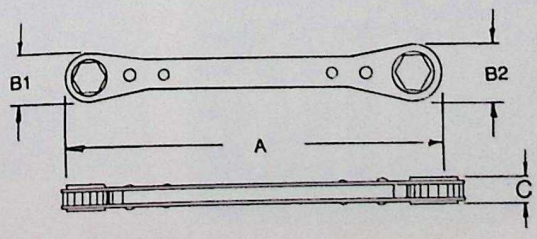
12-Point Long Pattern

Product Number	Opening, mm	Product Number	Opening, mm
54-322	8 x 9	54-396	18 x 19
54-334	10 x 11	54-415	20 x 22
54-352	12 x 13	54-419	21 x 23
54-367	14 x 15	54-445	24 x 27
54-382	16 x 17		

Ratcheting Box Wrenches—Straight Pattern, 6-Point* or 12-Point Opening

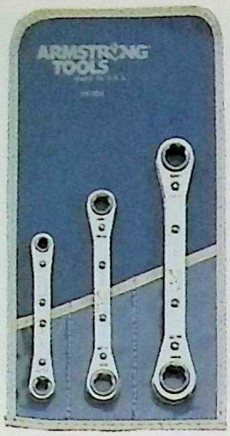
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Head Width	C Head Thickness
27-587*	1/4" x 5/16"	.13	4.250	0.593	0.656	0.312
27-588	1/4" x 5/16"	.13	4.250	0.593	0.656	0.312
27-590*	3/8" x 7/16"	.19	5.500	0.781	0.875	0.375
27-591	3/8" x 7/16"	.19	5.500	0.781	0.875	0.375
27-593*	1/2" x 9/16"	.45	6.750	1.000	1.125	0.375
27-594	1/2" x 9/16"	.45	6.750	1.000	1.125	0.375
27-596	5/8" x 11/16"	.66	8.000	1.312	1.437	0.375
27-599	5/8" x 3/4"	.66	8.000	1.312	1.437	0.375
27-601	13/16" x 15/16"	.75	9.250	1.406	1.406	0.375
27-602	3/4" x 7/8"	.75	9.250	1.406	1.406	0.375
27-603	1" x 1-1/16"	1.38	15.000	1.906	2.500	0.375
27-604	1"-1/8 x 1-1/4"	1.38	15.000	1.906	2.500	0.375





Ratcheting Box Wrenches—Straight Pattern, 6-Point* or 12-Point Opening METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Head Width	B2 Head Width	C Head Thickness
54-587*	7 x 8	59	108.0	15.1	16.7	7.9
54-590*	9 x 10	91	139.7	19.8	22.2	7.9
54-593*	11 x 12	200	171.5	25.4	28.6	9.5
54-596*	13 x 14	191	203.2	33.3	36.5	9.5
54-599	15 x 17	299	203.2	33.3	36.5	9.5
54-602	16 x 18	290	235.0	35.7	39.7	9.5
54-605	19 x 21	340	235.0	35.7	39.7	9.5



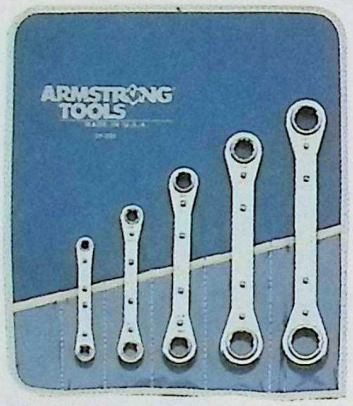
Ratcheting Box Wrench Set 27-605

Contents: 3 Straight Pattern Ratcheting Box Wrenches in Vinyl Roll 29-304.

Approximate weight, .79 lbs.

6-Pt. Straight Pattern

Product Number	Opening, Inches
27-587	1/4" x 5/16"
27-590	3/8" x 7/16"
27-593	1/2" x 9/16"



Ratcheting Box Wrench Set 27-608

Contents: 5 Straight Pattern Ratcheting Box Wrenches in Vinyl Roll 29-332.

Approximate weight, .225 lbs.

6-Pt. Straight Pattern

Product Number	Opening, Inches
27-587	1/4" x 5/16"
27-590	3/8" x 7/16"
27-593	1/2" x 9/16"

12-Pt. Straight Pattern

Product Number	Opening, Inches
27-596	5/8" x 11/16"
27-602	3/4" x 7/8"

Ratcheting Box Wrench Set 54-608 METRIC

Contents: 7 Ratcheting Box Wrenches in Vinyl Roll 29-348.

Approximate weight, 3.45 lbs. (1,565 G)

6-Pt. Straight Pattern

Product Number	Opening, mm
54-587	7 x 8
54-590	9 x 10
54-593	11 x 12
54-596	13 x 14

12-Pt. Straight Pattern

Product Number	Opening, mm
54-599	15 x 17
54-602	16 x 18
54-605	19 x 21

Ratcheting Box Wrench Set 54-611 METRIC

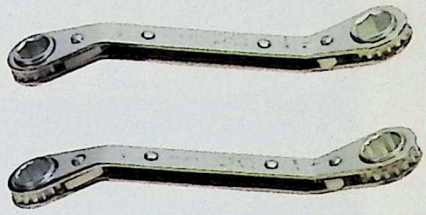
Same Wrenches as 54-608. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 3.25 lbs. (1,474 G)

Always wear eye protection when

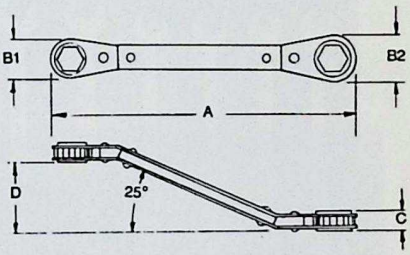
Ratcheting Box Wrenches—25° Offset, 6-Point* or 12-Point Opening in both box ends.

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Head Width	C Head Thickness	D Offset Height
27-613*	1/4" x 5/16"	.13	4.093	0.593	0.656	0.312	0.875
27-614	1/4" x 5/16"	.13	4.328	0.625	0.375	0.375	0.875
27-616*	3/8" x 7/16"	.18	5.218	0.781	0.875	0.312	1.250
27-617	3/8" x 7/16"	.18	5.968	0.796	0.906	0.375	1.250
27-619*	1/2" x 9/16"	.46	6.468	1.000	1.125	0.375	1.437
27-620	1/2" x 9/16"	.46	6.515	1.015	1.156	0.500	1.437
27-622	5/8" x 11/16"	.66	7.656	1.281	1.437	0.375	1.181
27-624	5/8" x 3/4"	.68	7.656	1.281	1.437	0.375	1.181
27-626	3/4" x 7/8"	.75	8.750	1.406	1.562	0.375	2.250
27-628	13/16" x 15/16"	.75	8.750	1.406	1.562	0.375	2.250



Ratcheting Box Wrenches—25° Offset, 6-Point* or 12-Point Opening in both box ends. METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Head Width	B2 Head Width	C Head Thickness	D Offset Height
54-637*	7 x 8	63	104.0	15.1	16.7	7.9	22.2
54-640*	9 x 10	100	132.6	19.8	22.2	7.9	28.6
54-643*	11 x 12	208	164.3	25.4	28.6	9.5	36.5
54-646*	13 x 14	195	164.3	25.4	28.6	9.5	36.5
54-649	15 x 17	313	194.5	32.5	36.5	9.5	47.6
54-652	16 x 18	299	194.5	32.5	36.5	9.5	47.6
54-655	19 x 21	362	222.3	35.7	39.7	9.5	57.2



Ratcheting Box Wrench Set 27-635

Contents: 5 25° Offset Ratcheting Box Wrenches in Vinyl Roll 29-332.

Approximate weight, 2.20 lbs.

6-Pt. Offset

Product Number	Opening, Inches
27-613	1/4" x 5/16"
27-616	3/8" x 7/16"
27-619	1/2" x 9/16"

12-Pt. Offset

Product Number	Opening, Inches
27-622	5/8" x 11/16"
27-626	3/4" x 7/8"

Ratcheting Box Wrench Set 54-668 METRIC

Contents: 7 25° Offset Ratcheting Box Wrenches in Vinyl Roll 29-348.

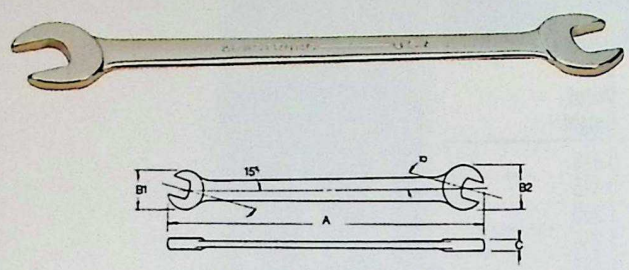
Approximate weight, 3.60 lbs. (1,631 G).

6-Pt. Offset

Product Number	Opening, mm
54-637	7 x 8
54-640	9 x 10
54-643	11 x 12
54-646	13 x 14

12-Pt. Offset

Product Number	Opening, mm
54-649	15 x 17
54-652	16 x 18
54-655	19 x 21



Double End Tappet Wrenches

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Head Width	C Head Thkns
27-643	3/8 x 7/16	.15	10.000	0.810	0.930	0.210
27-658	7/16 x 1/2	.12	10.000	0.930	1.130	0.210
27-667	1/2 x 9/16	.13	10.000	1.060	1.170	0.210
27-679	9/16 x 5/8	.20	10.000	1.170	1.310	0.210
27-694	5/8 x 11/16	.20	8.000	1.310	1.440	0.220
27-724	3/4 x 7/8	.39	8.000	1.550	1.680	0.220
27-751	15/16 x 1	.31	9.000	1.840	1.940	0.220

Tappet Wrench Set 27-770

Contents: 8 Tappet Wrenches, furnished in pairs, in Vinyl Roll 29-348.

Approximate weight, 1.94 lbs.

Product Number	Opening, Inches	Product Number	Opening, Inches
27-643	3/8" x 7/16"	27-694	5/8" x 11/16"
27-667	1/2" x 9/16"	27-724	3/4" x 7/8"

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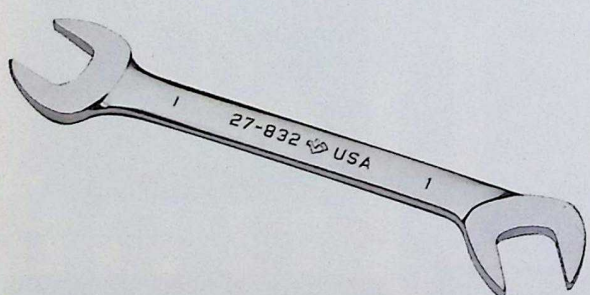
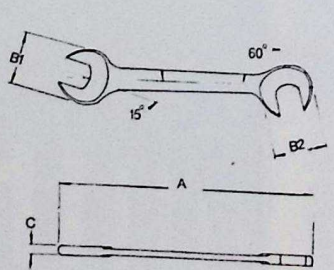




Open End Angle Wrenches, 15° x 60°

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Width	C Head Thickness
27-812	3/8	0.08	5	0.750	0.203
27-814	7/16	0.12	5-1/2	0.906	0.250
27-816	1/2	0.16	6-1/16	1.031	0.250
27-818	9/16	0.22	6-1/2	1.188	0.266
27-820	5/8	0.28	7-1/16	1.281	0.266
27-822	11/16	0.36	7-1/2	1.422	0.297
27-824	3/4	0.44	8	1.547	0.297
27-826	13/16	0.50	8-9/16	1.672	0.297
27-828	7/8	0.61	9-1/8	1.797	0.297
27-830	15/16	0.71	9-3/4	1.922	0.297
27-832	1	0.88	10-7/16	1.984	0.328
27-834	1-1/16	1.04	11-3/16	2.125	0.328
27-836	1-1/8	1.20	11-15/16	2.281	0.359
27-840	1-1/4	1.47	12-3/4	2.500	0.359
27-844	1-3/8	2.17	12-1/2	2.625	0.406
27-846	1-7/16	2.48	12-1/2	2.625	0.406
27-848	1-1/2	2.77	12-1/2	2.625	0.406
27-852	1-5/8	3.07	15-7/8	3.188	0.453
27-854	1-11/16	3.44	16-9/16	3.313	0.484
27-856	1-3/4	3.81	17-1/4	3.438	0.500
27-858	1-13/16	4.56	18	3.563	0.516
27-860	1-7/8	5.24	18-5/8	3.688	0.547
27-864	2	5.92	19-1/4	3.922	0.563

Note: 27-812 to 27-840 are full polish finish.
27-844 to 27-864 are satin finish.

Always wear eye protection when

Open End Angle Wrench Set 27-885

Contents: 7 15° and 60° Angle wrenches packaged in Vinyl Roll 29-344.

Approximate weight, 1.86 lbs.

Product Number	Opening, Inches	Product Number	Opening, Inches
27-812	3/8"	27-820	5/8"
27-814	7/16"	27-822	11/16"
27-816	1/2"	27-824	3/4"
27-818	9/16"		

Open End Angle Wrench Set 27-884

Contents: Same Wrenches as 27-885. Packaged in a cardboard box.

Approximate weight, 1.66 lbs.

Open End Angle Wrench Set 27-895

Contents: 14 15° and 60° Angle wrenches in Vinyl Roll 29-377.

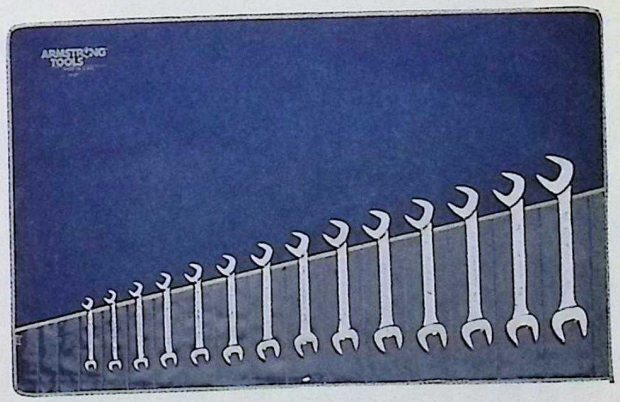
Approximate weight, 8.27 lbs.

Product Number	Opening, Inches	Product Number	Opening, Inches
27-812	3/8"	27-826	13/16"
27-814	7/16"	27-828	7/8"
27-816	1/2"	27-830	15/16"
27-818	9/16"	27-832	1"
27-820	5/8"	27-834	1-1/16"
27-822	11/16"	27-836	1-1/8"
27-824	3/4"	27-840	1-1/4"

Open End Angle Wrench Set 27-894

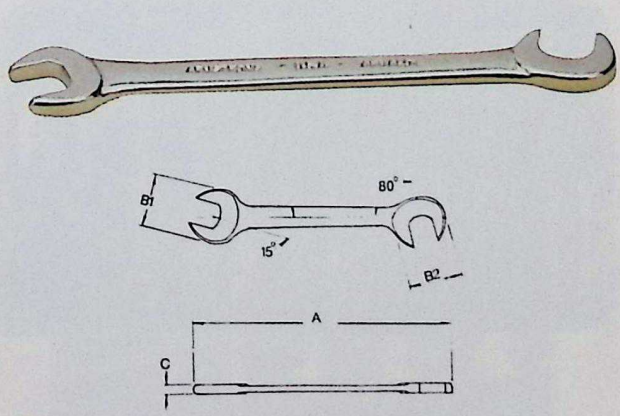
Contents: Same Wrenches as 27-895. Packaged in a cardboard box.

Approximate weight, 8.07 lbs.



Miniature 15° & 80° Angle Wrenches

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Head Width	C Head Thickness
27-903	13/64	.01	3.000	0.500	0.500	0.120
27-906	3/16	.01	3.000	0.500	0.500	0.115
27-907	7/32	.01	3.250	0.520	0.520	0.115
27-904	15/64	.01	3.370	0.540	0.540	0.115
27-908	1/4	.01	3.500	0.520	0.520	0.115
27-909	9/32	.02	3.620	0.570	0.570	0.155
27-910	5/16	.03	3.750	0.620	0.620	0.155
27-911	11/32	.03	3.870	0.740	0.740	0.155
27-912	3/8	.03	4.000	0.750	0.750	0.155
27-914	7/16	.07	4.150	0.890	0.890	0.165
27-916	1/2	.06	4.500	0.968	0.968	0.156
27-918	9/16	.11	5.437	1.125	1.125	0.156
27-920	5/8	.10	5.437	1.125	1.125	0.180



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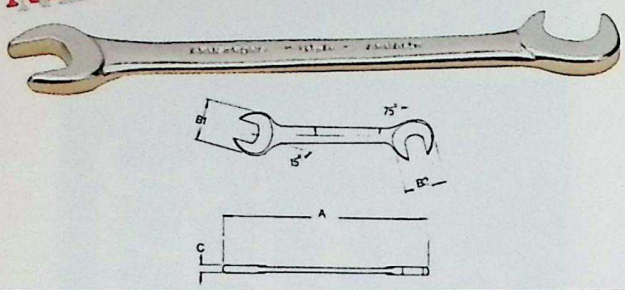
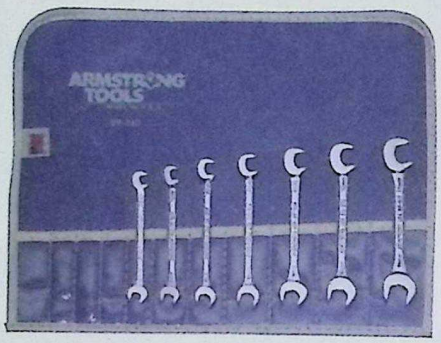


Miniature 15° & 80° Angle Wrenches — METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Head Width	B2 Head Width	C Head Thickness
54-902	5.5	14	82.6	13.2	13.2	2.9
54-906	6	14	85.6	13.7	13.7	2.9
54-907	7	14	91.9	14.5	14.5	3.9
54-908	8	14	95.3	15.7	15.7	3.9
54-909	9	14	98.3	18.8	18.8	3.9
54-910	10	14	101.6	19.1	19.1	3.9
54-911	11	14	105.4	22.6	22.6	4.2



Miniature Angle Wrench Set 54-941 — METRIC

Contents: 7 Miniature 15° x 80° Angle Wrenches in Vinyl Roll 29-354.

Approximate weight, .26 lbs. (118 G)

Product Number	Opening, mm	Product Number	Opening, mm
54-902	5.5mm	54-909	9mm
54-906	6mm	54-910	10mm
54-907	7mm	54-911	11mm
54-908	8mm		

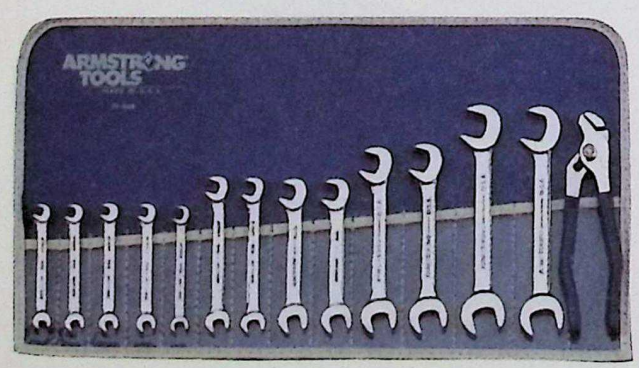
Miniature Angle Wrench Set 27-941

Contents: 10 Miniature 15° & 80° Angle Wrenches and Ignition Pliers 67-717 in Vinyl Roll 29-360.

Approximate weight, .41 lbs.

Product Number	Opening, Inches	Product Number	Opening, Inches
27-903	13/64"	27-909	9/32"
27-906	3/16"	27-910	5/16"
27-907	7/32"	27-911	11/32"
27-904	15/64"	27-912	3/8"
27-908	1/4"	27-914	7/16"

Product Number	Description
67-717	Pliers-T & G, 5" Ignition



Miniature Angle Wrench Set 27-943

Contents: 13 Miniature 15° & 80° Angle Wrenches and Ignition Pliers 67-717 in Vinyl Roll 29-368.

Approximate weight, .73 lbs.

Product Number	Opening, Inches	Product Number	Opening, Inches
27-903	13/64"	27-911	11/32"
27-906	3/16"	27-912	3/8"
27-907	7/32"	27-914	7/16"
27-904	15/64"	27-916	1/2"
27-908	1/4"	27-918	9/16"
27-909	9/32"	27-920	5/8"
27-910	5/16"		

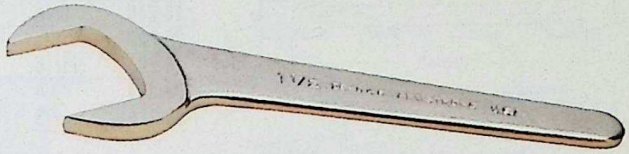
Product Number	Description
67-717	Pliers-T & G, 5" Ignition

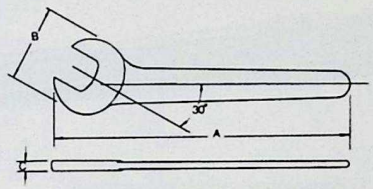
Always wear eye protecti

Thin Pattern Pump Wrenches

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Width	C Head Thickness
28-024	3/4	.22	6.312	1.687	0.250
28-028	7/8	.21	6.312	1.687	0.250
28-030	15/16	.24	7.062	1.875	0.250
28-032	1	.22	7.062	1.875	0.250
28-034	1-1/16	.21	7.062	1.875	0.250
28-036	1-1/8	.28	7.062	2.062	0.250
28-038	1-3/16	.28	7.062	2.062	0.250
28-040	1-1/4	.25	7.062	2.062	0.250
28-042	1-5/16	.45	7.812	2.500	0.281
28-044	1-3/8	.42	7.812	2.500	0.281
28-046	1-7/16	.39	7.812	2.500	0.281
28-048	1-1/2	.39	7.812	2.500	0.281
28-050	1-9/16	.46	7.812	2.625	0.281
28-052	1-5/8	.42	7.812	2.625	0.281
28-056	1-3/4	.68	8.625	3.125	0.312
28-060	1-7/8	.58	8.625	3.125	0.312
28-064	2	.82	8.625	3.500	0.312
28-068	2-1/8	.70	8.625	3.500	0.312
28-072	2-1/4	.72	8.625	3.500	0.312
28-076	2-3/8	.77	8.625	3.500	0.312
28-080	2-1/2	.75	8.625	3.500	0.312

Openings offset 30°. Heads are polished and mirror-chrome plated; handles are satin finish.

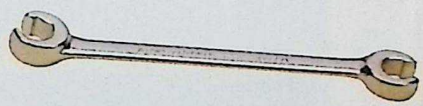


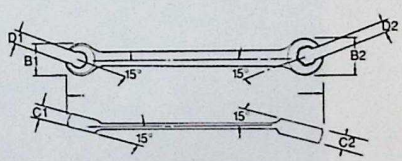


Double Head Flare Nut Wrenches

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Head Width	C1 Head Thickness	C2 Head Thickness	D1 Slot Width	D2 Slot Width
28-130*	3/8 x 7/16	.12	6.125	0.812	0.890	0.343	0.390	0.265	0.296
28-135*	1/2 x 9/16	.25	7.500	1.031	1.093	0.406	0.484	0.390	0.453
28-140*	5/8 x 11/16	.39	8.437	1.093	1.234	0.437	0.500	0.468	0.562
28-145	3/4 x 1	.61	9.125	1.250	1.593	0.468	0.625	0.578	0.781
28-150	7/8 x 1-1/8	.90	9.750	1.437	1.750	0.515	0.671	0.703	0.875

*Wrench has 6-point opening in both ends.



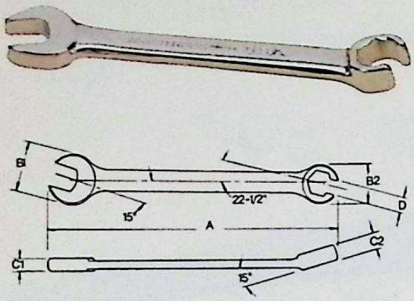


Double Head Flare Nut Wrench Set 28-155

Contents: 5 Double Head Flare Nut Wrenches in Vinyl Roll 29-332.

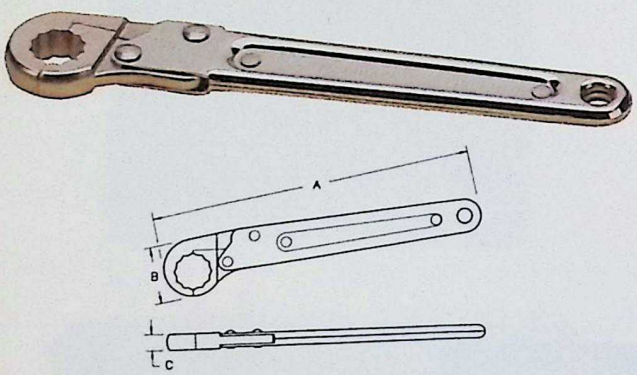
Approximate weight, 2.45 lbs.

Product Number	Opening, Inches
28-130	3/8" x 7/16"
28-135	1/2" x 9/16"
28-140	5/8" x 11/16"
28-145	3/4" x 1"
28-150	7/8" x 1-1/8"



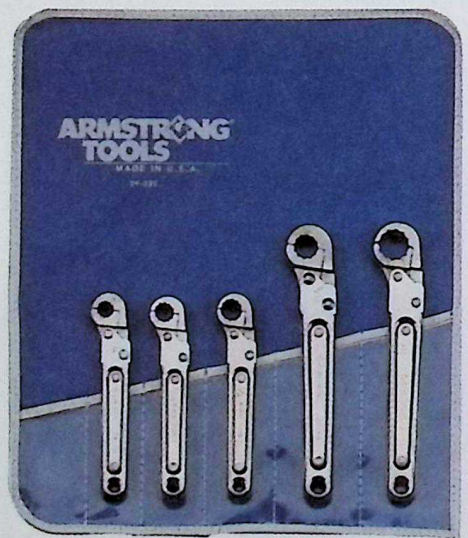
Combination Flare Nut Wrenches

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Head Width	C1 Head Thickness	C2 Head Thickness	D Slot Width
28-212	3/8	.09	5.000	0.900	0.810	0.220	0.340	0.250
28-214	7/16	.11	5.250	0.970	0.890	0.230	0.390	0.281
28-216	1/2	.16	6.000	1.100	1.030	0.250	0.410	0.375
28-218	9/16	.18	6.500	1.200	1.090	0.280	0.440	0.438
28-220	5/8	.25	7.000	1.310	1.090	0.320	0.440	0.468
28-222	11/16	.31	8.000	1.440	1.230	0.340	0.470	0.563
28-224	3/4	.58	9.500	1.580	1.250	0.340	0.470	0.563
28-228	7/8	.86	12.130	1.820	1.440	0.380	0.520	0.688



Ratcheting Flare Nut Wrenches

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Width	C Head Thickness
28-312	3/8	.16	5.410	1.000	0.280
28-314	7/16	.16	5.410	1.000	0.280
28-316	1/2	.16	5.410	1.000	0.280
28-318	9/16	.31	7.250	1.320	0.380
28-320	5/8	.31	7.250	1.320	0.380
28-322	11/16	.31	7.250	1.320	0.380
28-324	3/4	.31	7.250	1.320	0.380
28-326	13/16	.52	9.350	1.670	0.440
28-328	7/8	.52	9.350	1.670	0.440
28-330	15/16	.52	9.350	1.670	0.510
28-332	1	.52	9.350	1.670	0.510



Ratcheting Flare Nut Wrench Set 28-385

Contents: 5 Ratcheting Flare Nut Wrenches in Vinyl Roll 29-332.

Approximate weight, 3.97 lbs.

Product Number	Opening, Inches
28-312	3/8"
28-314	7/16"
28-316	1/2"

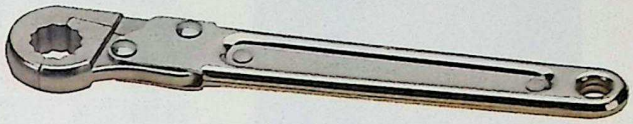
Product Number	Opening, Inches
28-318	9/16"
28-320	5/8"

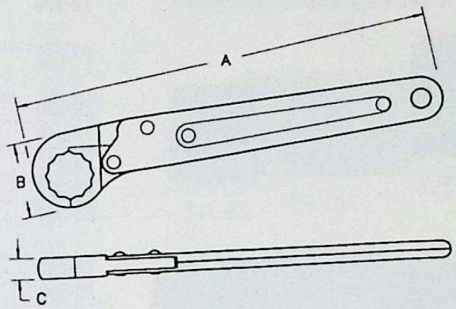
Always wear eye

Ratcheting Flare Nut Wrenches — METRIC

Product Number	Opening mm	Weight G	A Overall Length	B Head Width	C Head Thickness
55-307	7	73	137.4	25.4	7.1
55-308	8	73	137.4	25.4	7.1
55-309	9	73	137.4	25.4	7.1
55-310	10	73	137.4	25.4	7.1
55-311	11	73	137.4	25.4	7.1
55-312	12	73	137.4	25.4	7.1
55-313	13	73	137.4	25.4	7.1
55-314	14	141	184.2	33.5	9.7
55-315	15	141	184.2	33.5	9.7
55-316	16	141	184.2	33.5	9.7
55-317	17	141	184.2	33.5	9.7
55-318	18	141	184.2	33.5	9.7
55-319	19	141	184.2	33.5	9.7
55-321	21	263	237.5	42.4	11.2
55-322	22	263	237.5	42.4	11.2
55-323	23	263	237.5	42.4	13.0
55-324	24	263	237.5	42.4	13.0

NEW!





Ratcheting Flare Nut Wrench Set 55-385 — METRIC

NEW!

Contents: 6 Ratcheting Flare Nut Wrenches in Vinyl Roll 29-332.

Approximate weight, 1.43 lbs. (649 G)

Product Number	Opening, mm
55-310	10mm
55-311	11mm
55-312	12mm

Product Number	Opening, mm
55-313	13mm
55-314	14mm
55-315	15mm

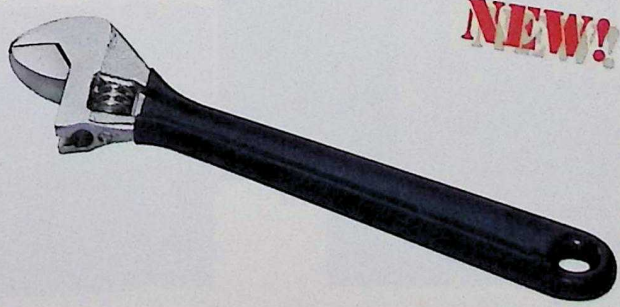
Adjustable Wrenches

Product Number	Length, Inches	Capacity, Inches	Weight, Pounds
28-404	4	1/2	.12
28-406	6	3/4	.26
28-408	8	1	.54
28-410	10	1-1/8	.90
28-412	12	1-5/16	1.42
28-415	15	1-11/16	3.37
28-418	18	2-1/16	5.56
28-424	24	2-7/16	8.25

Adjustable Wrenches, Cushion Grip

NEW!

Product Number	Length, Inches	Capacity, Inches	Weight, Pounds
28-454	4	1/2	0.12
28-456	6	3/4	0.26
28-458	8	1	0.55
28-460	10	1-1/8	0.91
28-462	12	1-5/16	1.44
28-465	15	1-11/16	3.42



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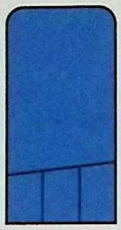

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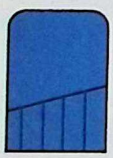
29-308

29-312



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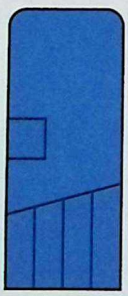

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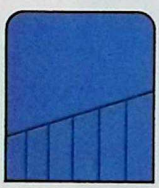

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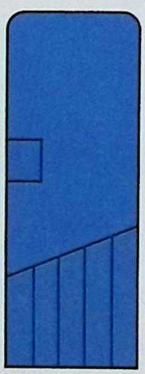

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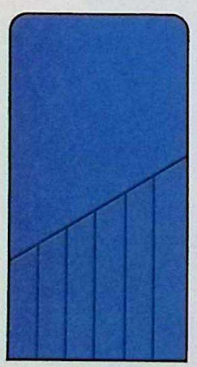

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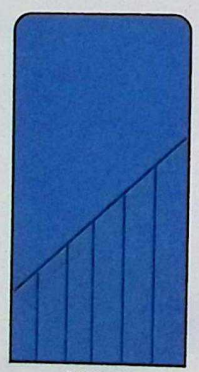
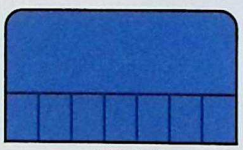


29-342

Vinyl Rolls

Product	Number of Pockets	Dimensions, Inches Width	Height	Used In these Tool Sets	Weight, Pounds
29-304	3	5-5/8	11	27-605	.06
29-306	3	8-7/8	17	66-629	.16
29-308	4	5-5/8	10	16-023, 27-563, 66-962	.07
29-312	5	6-3/4	7-3/4	70-970	.06
29-316	5	8	11-1/2	70-561, 83-571	.11
29-320	5	9	22-1/4	16-023, 66-616, 66-639, 66-641, 66-647 66-661, 66-671	.21
29-332	6	11-5/8	14	16-023, 27-608, 27-635, 28-155, 28-385, 53-840, 54-568, 32-468, 55-385	.17
29-336	6	10-3/4	28-7/8	16-023, 66-624, 66-631	.31
29-340	6	14-1/2	27-7/8	16-023, 27-568, 53-850	.39
29-342	6	14-1/2	27-7/8	26-274, 26-850, 30-974, 32-450, 53-272	.37
29-343	7	18-1/2	10-1/2	16-010, 16-018, 66-659, 66-843	.22
29-344	8	12-3/8	14	16-023, 25-609, 25-627, 25-631, 25-683, 30-609, 30-631, 53-270	.20
29-345	7	14-3/4	26-1/2	66-626	.41
29-348	8	14	13-1/8	27-770, 43-003, 54-608, 54-668	.20



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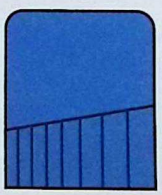

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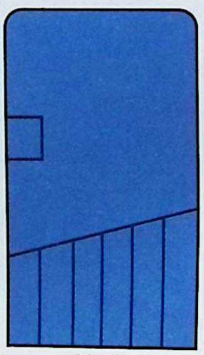

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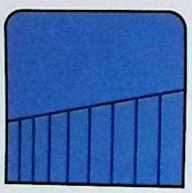
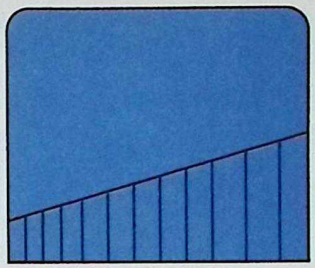


29-348

Vinyl Rolls

Product	Number of Pockets	Dimensions, Inches Width	Height	Used In these Tool Sets	Weight, Pounds
29-352	8	19-1/2	17-1/4	66-655	.31
29-354	9	6-3/8	5-1/4	52-601	.05
29-356	10	11-5/8	11-1/2	70-551	.15
29-357	10	26-3/8	26	53-274, 53-860, 54-572	.79
29-360	11	9-3/4	7-5/8	16-009,16-010,16-017,16-018,16-023, 16-035, 25-603, 27-941	.08
29-361	11	17-3/8	11	52-607	.22
29-362	11	23	21-3/4	16-023, 26-282, 53-284	.49
29-363	11	29	10-1/4	66-845, 66-848	.30
29-364	12	24	20	25-629, 25-635, 25-687, 30-635, 52-623, 52-631, 70-563	.49
29-368	14	13-5/8	7-7/8	16-023, 27-943, 70-565	.13
29-370	14	26-1/2	13	25-613, 30-613, 52-619	.32
29-373	15	25-3/4	17	52-627, 52-633	.35
29-377	17	40-7/8	25	16-023,25-643,30-643,52-655	1.18
29-384	19	18-5/8	21-1/2	70-555, 70-569	.42
29-386	19	32-3/8	20	52-637	.68
29-388	26	23-1/2	25	70-571	.68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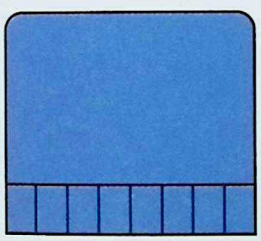
29-370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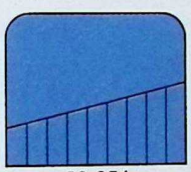
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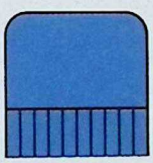
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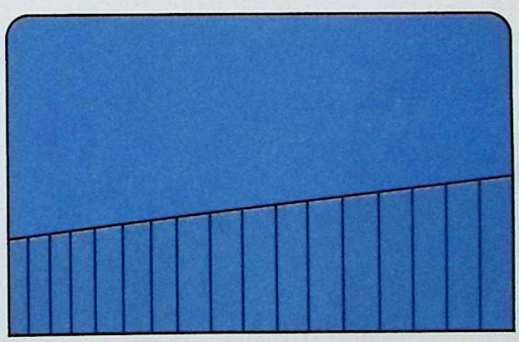
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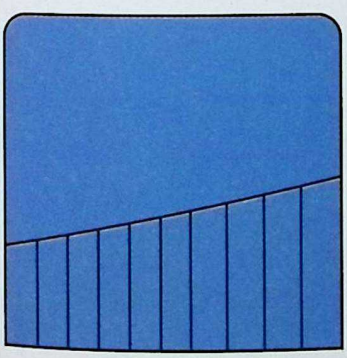
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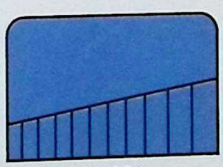
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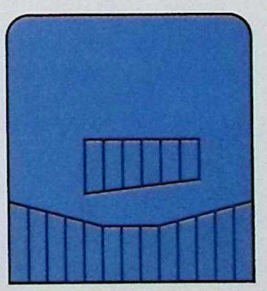
29-373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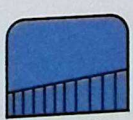
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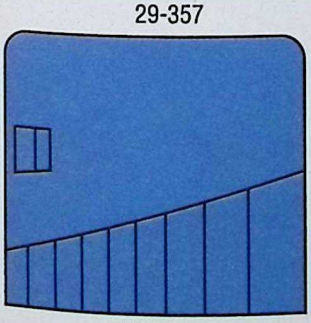
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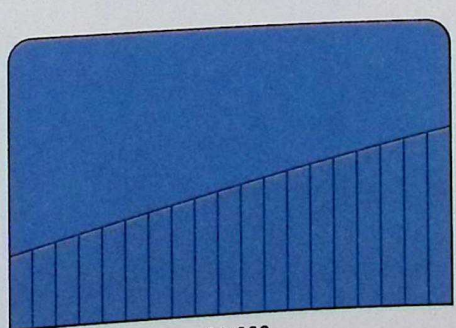
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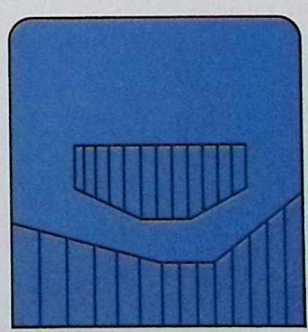
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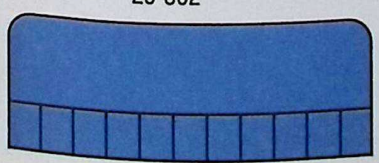
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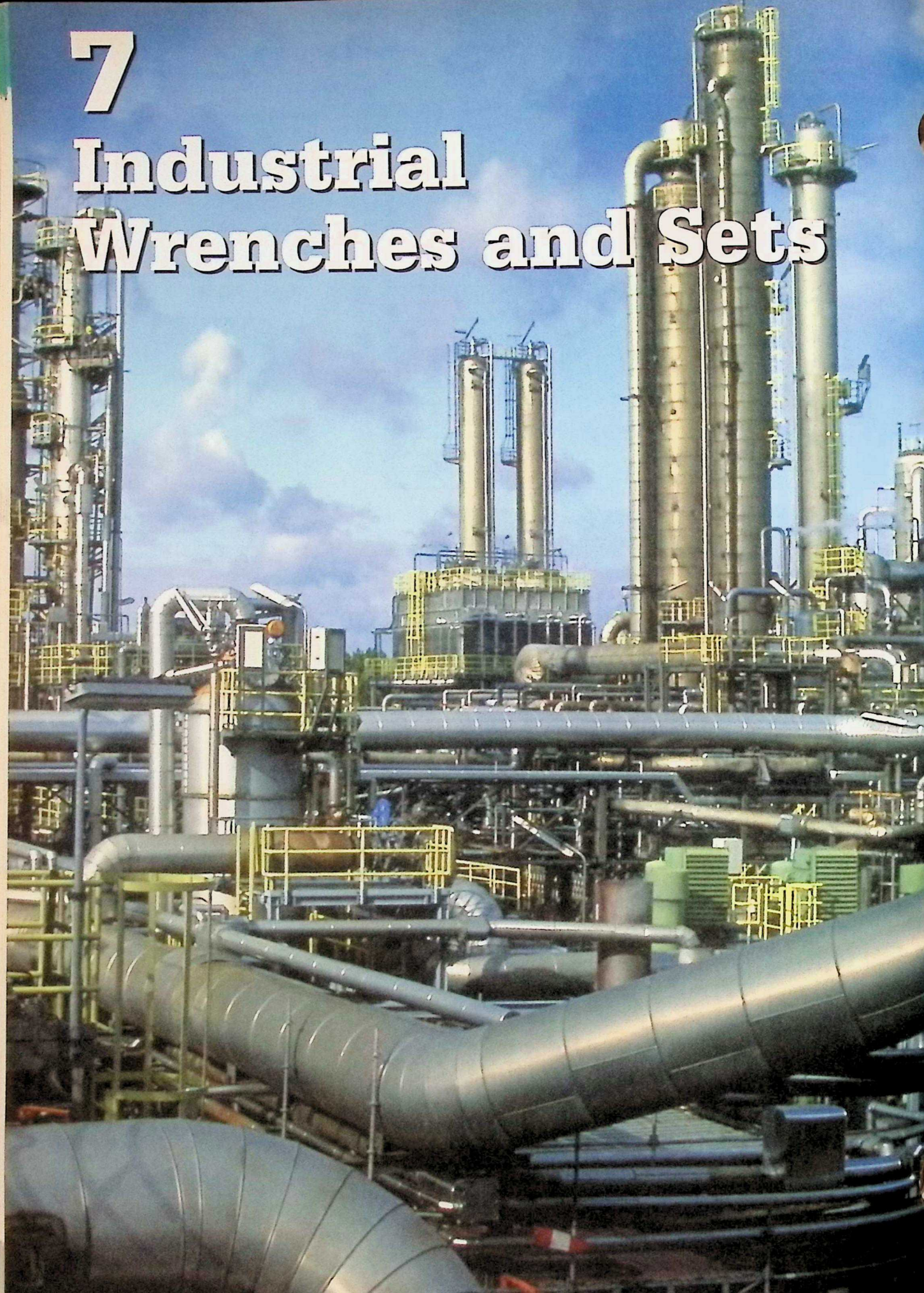
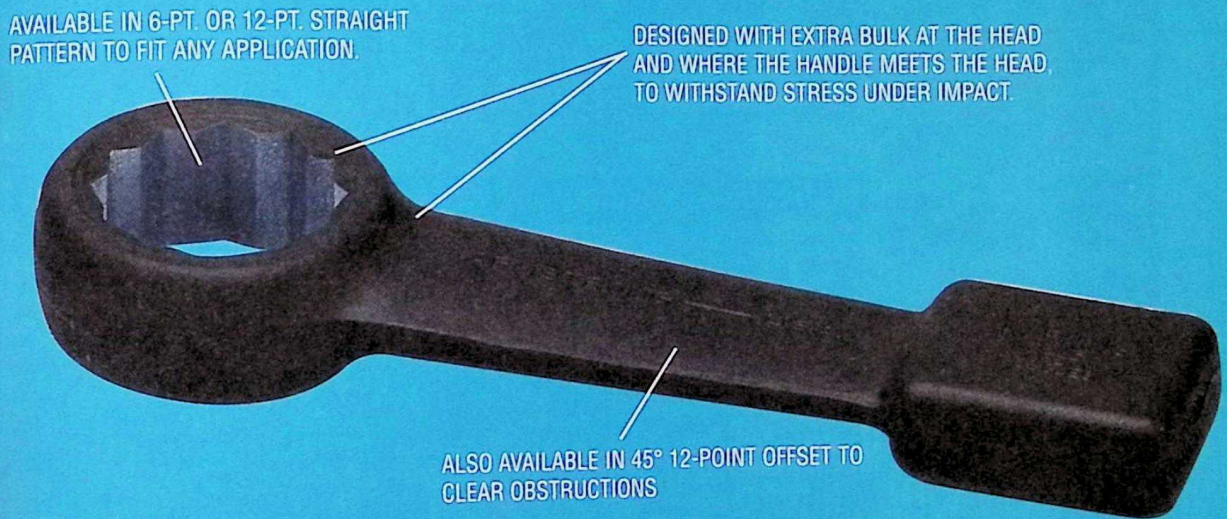
7 Industrial Wrenches and Sets



Industrial Wrenches and Sets

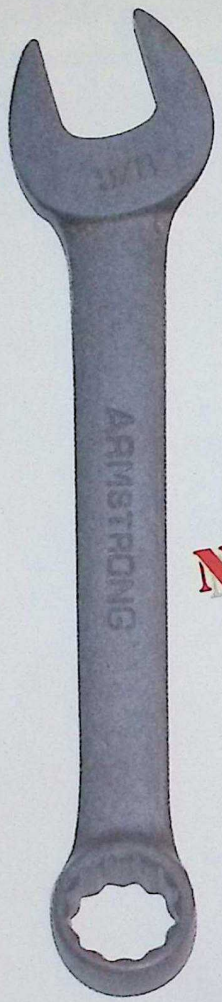
In this section you will find the many specialty wrenches needed for industrial or construction applications—each tool incorporating the same attention to design considerations, scientific steel selection, careful manufacturing and quality control procedures that apply to all Armstrong Tools.

In addition to outstanding quality, one feature that sets Armstrong apart from all others is the exceptionally wide variety of tool types and styles we offer. Nowhere is this more apparent than in our Industrial Wrench Line:



- Industrial Finish Combination Wrenches
- Open End Industrial Finish Wrenches
- Box End Industrial Finish Wrenches
- Structural and Construction Wrenches
- Striking Wrenches
- Spanner Wrenches
- T-Handle Wrenches
- Set Screw Wrenches
- Ratcheting Box Wrenches

ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS



NEW!

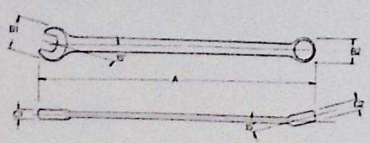
Short Pattern, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
30-108	1/4	.02	3.500	0.625	0.437	0.156	0.219
30-110	5/16	.03	4.000	0.781	0.531	0.188	0.279
30-112	3/8	.06	4.250	0.844	0.625	0.210	0.296
30-114	7/16	.07	5.062	0.969	0.719	0.245	0.344
30-116	1/2	.11	5.500	1.078	0.812	0.250	0.359
30-118	9/16	.15	5.937	1.234	0.875	0.281	0.373
30-120	5/8	.16	6.312	1.375	0.984	0.312	0.437
30-122	11/16	.24	7.125	1.500	1.047	0.312	0.469
30-124	3/4	.26	7.375	1.625	1.156	0.328	0.500
30-126	13/16	.37	7.500	1.828	1.234	0.375	0.594
30-128	7/8	.49	7.875	1.828	0.133	0.390	0.594
30-130	15/16	.68	8.250	2.000	1.406	0.438	0.625
30-132	1	.76	8.625	2.062	1.500	0.453	0.656

Short Pattern, 12-Point Lobular Opening — METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
56-006*	6	9	88.9	15.4	12.2	4.3	5.5
56-007*	7	9	88.9	15.5	12.3	4.4	5.5
56-008*	8	14	101.6	18.3	13.5	3.4	7.1
56-109	9	18	101.6	18.3	13.5	3.4	7.1
56-110	10	27	107.9	21.4	15.9	5.3	7.5
56-111	11	32	128.5	24.6	18.3	6.2	8.7
56-112	12	50	139.7	27.4	20.6	6.3	9.1
56-113	13	45	139.7	27.4	20.6	6.3	9.1
56-114	14	68	150.1	31.3	22.2	7.1	9.5
56-115	15	73	160.3	34.9	24.9	7.9	11.1
56-116	16	73	160.3	34.9	24.9	7.9	11.1
56-117	17	109	180.9	38.1	26.6	7.9	11.9
56-118	18	136	187.3	41.2	29.4	8.2	12.7
56-119	19	150	187.3	41.2	29.4	8.2	12.7

*Has 6-point opening in box end.



SAFETY NOTICE

ALWAYS PULL ON A WRENCH, NEVER PUSH.

NEVER USE CHEATER BARS/EXTENSIONS.

NEVER SUBSTITUTE METRIC FOR FRACTIONAL TOOLS.

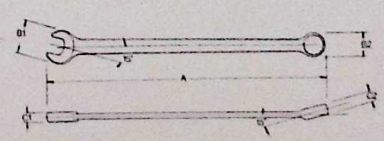
Long Pattern, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
30-208	1/4	.05	5.000	0.550	0.390	0.140	0.190
30-210	5/16	.07	5.750	0.670	0.490	0.170	0.230
30-211	11/32	.07	5.750	0.670	0.490	0.170	0.230
30-212	3/8	.09	6.500	0.790	0.560	0.190	0.250
30-214	7/16	.14	7.250	0.950	0.670	0.210	0.290
30-216	1/2	.19	8.000	1.040	0.760	0.240	0.330
30-218	9/16	.23	8.750	1.180	0.840	0.260	0.350
30-220	5/8	.25	9.500	1.310	0.940	0.280	0.410
30-222	11/16	.34	10.250	1.430	1.010	0.310	0.440
30-224	3/4	.43	11.000	1.560	1.100	0.340	0.480
30-226	13/16	.65	11.750	1.660	1.190	0.350	0.520
30-228	7/8	.76	12.500	1.810	1.280	0.370	0.550
30-230	15/16	.91	13.250	1.920	1.360	0.390	0.590
30-232	1	1.02	14.000	2.050	1.450	0.410	0.620
30-234	1-1/16	1.23	14.750	2.200	1.550	0.440	0.650
30-236	1-1/8	1.31	15.500	2.280	1.620	0.470	0.680
30-238	1-3/16	1.52	16.310	2.420	1.720	0.490	0.730
30-240	1-1/4	1.76	17.060	2.570	1.820	0.510	0.740
30-242	1-5/16	2.31	20.125	2.703	2.000	0.500	0.844
30-244	1-3/8	2.15	20.125	2.875	2.062	0.500	0.875
30-246	1-7/16	2.55	21.125	3.000	2.187	0.750	0.937
30-248	1-1/2	2.43	21.125	3.062	2.187	0.625	0.906
30-252	1-5/8	3.10	24.125	3.500	2.437	0.640	0.969
30-254	1-11/16	3.26	24.125	3.500	2.437	0.675	0.969
30-256	1-3/4	5.05	25.625	3.687	2.750	0.760	1.109
30-258	1-13/16	6.10	25.625	3.687	2.750	0.781	1.109
30-260	1-7/8	6.00	27.125	4.062	2.937	0.750	1.125
30-264	2	5.94	27.125	4.062	2.937	0.750	1.125
30-266	2-1/16	5.75	27.125	4.000	2.875	0.750	1.125
30-268	2-1/8	9.00	28.000	4.406	3.250	0.844	1.125
30-270	2-3/16	9.31	28.000	4.406	3.250	0.844	1.125
30-272	2-1/4	9.12	28.000	4.406	3.250	0.844	1.125
30-276	2-3/8	13.61	30.000	5.031	3.750	0.938	1.375
30-280	2-1/2	13.89	30.000	5.031	3.750	0.938	1.375
30-282	2-9/16	12.40	32.000	5.562	4.187	1.000	1.500
30-284	2-5/8	14.50	32.000	5.562	4.187	1.000	1.500
30-288	2-3/4	14.60	32.000	5.562	4.187	1.000	1.500

Long Pattern, 12-Point Lobular Opening — METRIC

NEW!

Product Number	Opening mm	Weight G	A Overall Length	B1 Width Open End	B2 Width Box End	C1 Thickness Open End	C2 Thickness Box End
56-210	10	41	170.9	21.3	15.7	5.1	6.9
56-211	11	64	184.2	24.1	17.0	5.3	7.4
56-212	12	91	195.1	25.4	18.3	5.8	7.9
56-213	13	86	207.0	26.4	19.3	6.1	8.4
56-214	14	104	218.9	30.0	21.3	6.6	8.9
56-215	15	114	230.9	31.8	22.6	6.9	9.7
56-216	16	114	241.3	33.3	23.9	7.1	10.4
56-217	17	159	256.0	34.8	24.9	7.4	10.9
56-218	18	154	267.0	36.3	25.7	7.9	11.2
56-219	19	195	279.4	39.6	27.9	8.6	12.2
56-220	20	274	292.1	41.7	29.0	8.6	12.7
56-221	21	299	304.0	43.7	31.0	9.1	13.7
56-222	22	299	317.5	46.0	32.5	9.4	14.0
56-223	23	418	327.9	48.0	33.5	9.7	14.5
56-224	24	413	338.1	50.0	35.3	9.9	15.0



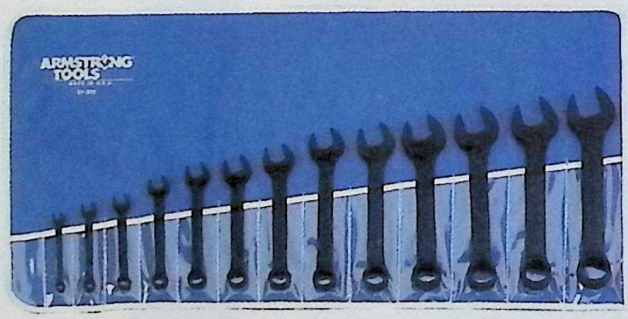
Black Combination Wrench Set 30-609

Contents: 7 Short Pattern Combination Wrenches in Vinyl Roll 29-344.

Approximate weight, 1.29 lbs.

12-Pt. Short Pattern

Product Number	Opening, Inches
30-112	3/8"
30-114	7/16"
30-116	1/2"
30-118	9/16"
30-120	5/8"
30-122	11/16"
30-124	3/4"



Black Combination Wrench Set 30-613

Contents: 13 Short Pattern Combination Wrenches in Vinyl Roll 29-370.

Approximate weight, 3.96 lbs.

12-Pt. Short Pattern

Product Number	Opening, Inches
30-108	1/4"
30-110	5/16"
30-112	3/8"
30-114	7/16"
30-116	1/2"
30-118	9/16"
30-120	5/8"
30-122	11/16"
30-124	3/4"
30-126	13/16"
30-128	7/8"
30-130	15/16"
30-132	1"

Black Combination Wrench Set 30-631

Contents: 7 Long Pattern Combination Wrenches in Vinyl Roll 29-344.

Approximate weight, 1.87 lbs.

12-Pt. Long Pattern

Product Number	Opening, Inches
30-212	3/8"
30-214	7/16"
30-216	1/2"
30-218	9/16"
30-220	5/8"
30-222	11/16"
30-224	3/4"

Black Combination Wrench Set 30-635

Contents: 11 Long Pattern Combination Wrenches in Vinyl Roll 29-364.

Approximate weight, 5.40 lbs.

12-Pt. Long Pattern

Product Number	Opening, Inches	Product Number	Opening, Inches
30-212	3/8"	30-224	3/4"
30-214	7/16"	30-226	13/16"
30-216	1/2"	30-228	7/8"
30-218	9/16"	30-230	15/16"
30-220	5/8"	30-232	1"
30-222	11/16"		

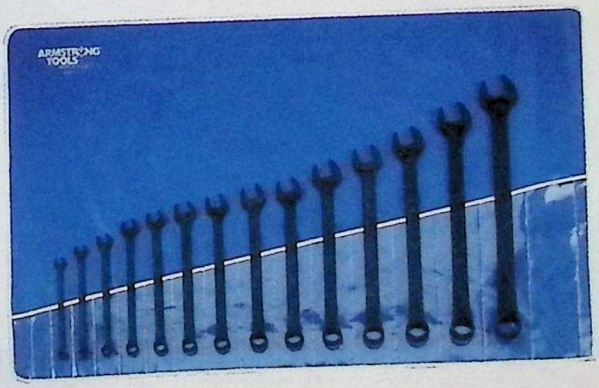
Black Combination Wrench Set 30-643

Contents: 14 Long Pattern Combination Wrenches in Vinyl Roll 29-377.

Approximate weight, 10.39 lbs.

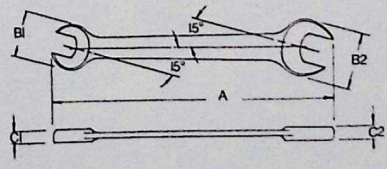
12-Pt. Long Pattern

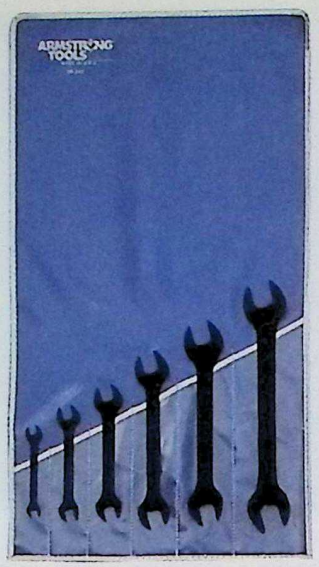
Product Number	Opening, Inches	Product Number	Opening, Inches
30-212	3/8"	30-226	13/16"
30-214	7/16"	30-228	7/8"
30-216	1/2"	30-230	15/16"
30-218	9/16"	30-232	1"
30-220	5/8"	30-234	1-1/16"
30-222	11/16"	30-236	1-1/8"
30-224	3/4"	30-240	1-1/4"



Open End Wrenches—Double Head

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Head Width	C Head Thickness
30-734	5/16 x 3/8	.05	4.500	0.812	0.687	0.203
30-743	3/8 x 7/16	.06	4.875	0.844	0.968	0.228
30-758	7/16 x 1/2	.11	5.625	0.968	1.078	0.218
30-767	1/2 x 9/16	.14	6.125	1.078	1.234	0.250
30-779	9/16 x 5/8	.17	6.625	1.203	1.343	0.265
30-794	5/8 x 11/16	.23	7.250	1.375	1.500	0.281
30-797	5/8 x 3/4	.27	7.875	1.343	1.594	0.296
30-806	11/16 x 3/4	.32	8.562	1.500	1.625	0.312
30-824	3/4 x 7/8	.44	9.750	1.625	1.875	0.312
30-851	15/16 x 1	.73	10.875	1.875	1.975	0.375
30-869	1-1/16 x 1-1/4	1.30	14.000	2.062	2.312	0.468
30-872	1-1/8 x 1-1/4	1.38	14.000	2.062	2.312	0.468
30-896	1-7/16 x 1-5/8	2.73	18.250	2.875	3.187	0.593
30-902	1-1/2 x 1-5/8	2.56	18.250	2.875	3.187	0.593



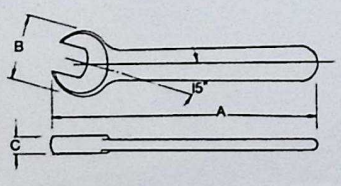


Black Open End Wrench Set 30-974

Contents: 6 Open End Wrenches in Vinyl Roll 29-342.

Approximate weight, 2.19 pounds.

Product Number	Opening, Inches	Product Number	Opening, Inches
30-734	5/16" x 3/8"	30-806	11/16" x 3/4"
30-758	7/16" x 1/2"	30-824	3/4" x 7/8"
30-779	9/16" x 5/8"	30-851	15/16" x 1"



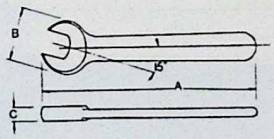
Open End Wrenches—Single Head

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Width	C Head Thickness
31-008	1/4	.05	3.500	0.750	0.187
31-010	5/16	.04	3.500	0.750	0.187
31-012	3/8	.09	4.000	0.875	0.266
31-014	7/16	.14	4.500	1.062	0.312
31-016	1/2	.13	4.500	1.062	0.312
31-018	9/16	.19	5.625	1.250	0.375
31-022	11/16	.34	6.500	1.437	0.406
31-024	3/4	.42	7.250	1.563	0.437
31-028	7/8	.67	8.250	1.875	0.469
31-030	15/16	.84	9.000	2.125	0.562
31-032	1	.83	9.000	2.125	0.562
31-034	1-1/16	1.26	10.500	2.312	0.625
31-036	1-1/8	1.33	10.500	2.312	0.625
31-040	1-1/4	2.01	11.750	2.812	0.640
31-044	1-3/8	1.91	11.750	2.812	0.688
31-046	1-7/16	2.95	13.500	3.312	0.812
31-048	1-1/2	2.59	13.500	3.312	0.812
31-052	1-5/8	3.70	15.500	3.500	0.812
31-058	1-13/16	4.68	17.000	4.250	0.938
31-064	2	6.22	19.000	4.750	1.000
31-070	2-3/13	8.77	21.000	4.875	1.125
31-072	2-1/4	8.31	21.000	4.875	1.125
31-076	2-3/8	10.22	23.000	5.750	1.125
31-078	2-7/16	10.45	23.000	5.750	1.125
31-082	2-9/16	15.06	25.000	6.250	1.250
31-084*	2-5/8	14.85	25.000	6.250	1.250
31-088*	2-3/4	15.82	27.000	6.625	1.375
31-094*	2-15/16	15.21	27.000	6.625	1.375
31-096*	3	21.25	30.000	7.500	1.437

*Carbon Steel.

Thin Pattern Check Nut Wrenches. Carbon Steel

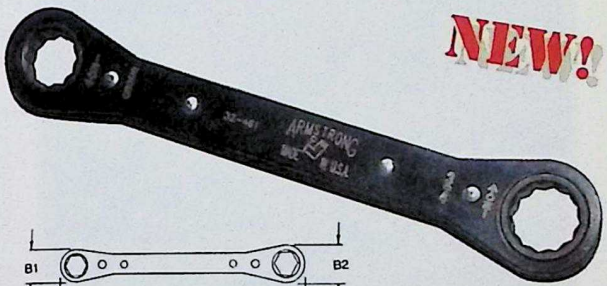
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Width	C Head Thickness
31-314	7/16	.07	3.937	1.125	0.156
31-316	1/2	.06	3.937	1.125	0.156
31-318	9/16	.06	4.437	1.187	0.171
31-320	5/8	.12	5.125	1.468	0.187
31-322	11/16	.13	5.125	1.468	0.187
31-324	3/4	.21	6.000	1.687	0.218
31-326	13/16	.37	6.750	2.093	0.250
31-328	7/8	.35	6.750	2.093	0.250
31-330	15/16	.47	7.500	2.312	0.281
31-332	1	.46	7.500	2.312	0.281
31-334	1-1/16	.44	8.500	2.500	0.312
31-336	1-1/8	.63	8.500	2.500	0.312
31-340	1-1/4	1.08	10.000	3.000	0.375
31-348	1-1/2	1.50	11.500	3.375	0.437
31-352	1-5/8	2.37	13.000	3.937	0.500

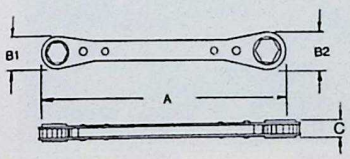


Ratcheting Box Wrenches Straight Pattern 12-Point Opening

NEW!

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Head Width	C Head Thkns
32-453	1/4 x 5/16	0.13	4.500	0.594	0.672	0.375
32-455	3/8 x 7/16	0.19	5.500	0.797	0.891	0.375
32-457	1/2 x 9/16	0.41	6.875	1.016	1.156	0.375
32-459	5/8 x 11/16	0.63	8.125	1.297	1.438	0.375
32-461	5/8 x 3/4	0.63	8.125	1.297	1.438	0.375
32-463	3/4 x 7/8	0.72	9.250	1.406	1.578	0.375
32-465	13/16 x 15/16	0.70	9.250	1.406	1.578	0.375





Black Ratcheting Box Wrench Set 32-468

NEW!

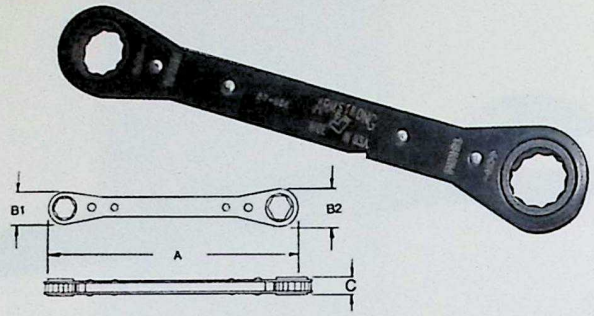
Contents: 5 Ratcheting Box Wrenches in Vinyl Roll 29-332.

Approximate weight, 2.25 lbs.

12-Pt. Opening

Product Number	Opening, Inches
32-453	1/4" x 5/16"
32-455	3/8" x 7/16"
32-457	1/2" x 9/16"
32-459	5/8" x 11/16"
32-463	3/4" x 7/8"

NEW!



Ratcheting Box Wrenches – Straight Pattern METRIC

Product Number	Opening mm	Weight G	A Overall Length	B1 Head Width	B2 Head Width	C Head Thkns
57-853*	7 x 8	59	114	15.1	17.1	9.5
57-856*	9 x 10	91	140	20.2	22.6	9.5
57-859*	11 x 12	200	171	25.8	29.4	12.7
57-862*	13 x 14	191	171	25.8	29.4	12.7
57-865	15 x 17	299	203	32.9	36.5	12.7
57-868	16 x 18	291	203	32.9	36.5	12.7
57-871	19 x 21	340	235	35.7	40.1	12.7

6-point* or 12-Point Openings in both box ends.

NEW!

Ratcheting Box Wrench Set 57-875 METRIC

Contents: 7 Ratcheting Box Wrenches in Vinyl Roll 29-348.

Approximate weight, 3.44 lbs. (1,563G).

Product Number	Opening, mm
57-853	7 x 8
57-856	9 x 10
57-859	11 x 12
57-862	13 x 14
57-865	15 x 17
57-868	16 x 18
57-871	19 x 21

Adjustable Construction Wrench

Head is offset 15° from centerline, black finish.

Product Number	Overall Length	Capacity Inches	Weight Lbs.
32-495	15	1-1/2	2.30

SAFETY NOTICE

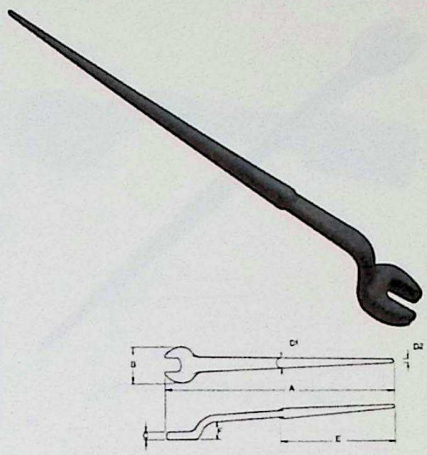
ALWAYS PULL ON A WRENCH, NEVER PUSH.

NEVER USE CHEATER BARS/EXTENSIONS.

NEVER SUBSTITUTE METRIC FOR FRACTIONAL TOOLS.

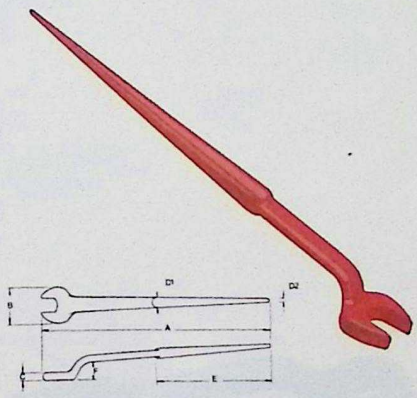
Structural Wrenches, Black Finish

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Width	C Head Thickness	D1 Large Dia. Tang	D2 Small Dia. Tang	E Length Tang	F Offset Height
32-520	5/8	.71	12.125	1.875	0.437	0.625	0.156	7.875	0.875
32-524	3/4	.69	12.125	1.875	0.437	0.625	0.156	7.875	0.875
32-528	7/8	1.29	14.500	2.187	0.531	0.750	0.187	9.375	1.000
32-530	15/16	1.29	14.500	2.187	0.531	0.750	0.187	9.375	1.000
32-532	1	1.20	14.500	2.187	0.531	0.750	0.187	9.375	1.000
32-534	1-1/16	1.92	17.000	2.437	0.625	0.875	0.218	11.000	1.125
32-536	1-1/8	1.90	17.000	2.437	0.625	0.875	0.218	11.000	1.125
32-540	1-1/4	2.57	19.000	2.750	0.687	0.937	0.250	12.375	1.250
32-542	1-5/16	2.61	19.000	2.750	0.687	0.937	0.250	12.375	1.250
32-546	1-7/16	3.64	21.000	3.125	0.750	1.125	0.281	13.500	1.750
32-548	1-1/2	3.79	21.000	3.125	0.750	1.125	0.281	13.500	1.750
32-552	1/5/8	5.64	23.000	3.625	0.875	1.250	0.312	14.500	1.500
32-558	1-13/16	8.02	25.000	4.437	1.000	1.437	0.437	15.500	1.625
32-560	1-7/8	7.86	25.000	4.437	1.000	1.437	0.437	15.500	1.625
32-564	2	7.73	25.000	4.437	1.000	1.437	0.437	15.500	1.625



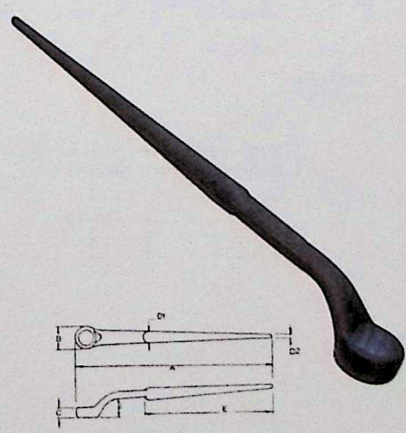
Structural Wrenches (America Bridge Pattern), Red Finish

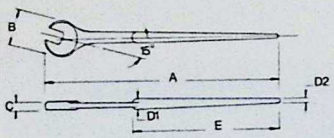
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Width	C Head Thickness	D1 Large Dia. Tang	D2 Small Dia. Tang	E Length Tang	F Offset Height
32-628	7/8	.62	12.000	1.812	0.375	0.625	0.156	7.563	1.000
32-630	15/16	1.11	14.750	1.937	0.406	0.812	0.156	10.190	1.000
32-632	1	1.35	14.750	2.281	0.437	0.875	0.156	10.000	1.000
32-634	1-1/16	1.30	14.750	2.281	0.437	0.875	0.156	10.000	1.000
32-636	1-1/8	2.11	17.000	2.500	0.562	1.000	0.156	11.000	1.000
32-640	1-1/4	2.09	17.000	2.500	0.562	1.000	0.156	11.000	1.000
32-642	1-5/16	2.83	17.312	3.062	0.687	1.125	0.218	11.000	1.000
32-646	1-7/16	2.77	17.312	3.062	0.687	1.125	0.218	11.000	1.000
32-648	1-1/2	3.26	17.687	3.531	0.687	1.125	0.218	11.000	1.000
32-652	1-5/8	3.26	17.687	3.531	0.687	1.125	0.218	11.000	1.000



Structural Box Wrenches Black Finish, 12-Point Lobular Opening

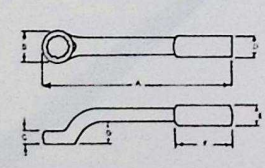
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Width	C Head Thickness	D1 Large Dia. Tang	D2 Small Dia. Tang	E Length Tang	F Offset Height
32-728	7/8	.74	12.000	1.375	0.625	0.750	0.187	7.625	1.125
32-730	15/16	1.03	13.500	1.562	0.750	0.750	0.187	8.500	1.125
32-732	1	.91	13.500	1.562	0.750	0.750	0.187	8.500	1.250
32-734	1-1/16	1.40	14.750	1.687	0.812	0.875	0.187	9.375	1.312
32-736	1-1/8	1.38	14.750	1.687	0.812	0.875	0.187	9.375	1.312
32-740	1-1/4	2.22	17.000	2.000	0.875	0.937	0.187	11.250	1.437
32-742	1-5/16	2.14	17.000	2.000	0.875	0.937	0.187	11.250	1.437
32-746	1-7/16	3.49	21.000	2.218	1.000	1.125	0.281	13.625	1.500
32-748	1-1/2	3.47	21.000	2.218	1.000	1.125	0.281	13.625	1.500
32-752	1-5/8	4.97	21.500	2.500	1.062	1.250	0.312	13.625	1.625
32-758	1-13/16	5.76	23.000	2.750	1.125	1.375	0.437	14.500	1.687
32-760	1-7/8	5.64	23.000	2.750	1.125	1.375	0.437	14.500	1.687
32-764	2	6.91	24.500	3.000	1.250	1.437	0.437	15.000	1.812





Construction Wrenches, Black Finish

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Width	C Head Thickness	D1 Large Dia. Tang	D2 Small Dia. Tang	E Length Tang	F Offset Height
32-820	5/8	.56	12.000	1.656	0.437	0.562	0.156	6.750	
32-822	11/16	.55	12.000	1.656	0.437	0.562	0.156	6.750	
32-824	3/4	.55	12.000	1.656	0.437	0.562	0.156	6.750	
32-828	7/8	1.16	14.500	2.062	0.531	0.750	0.187	7.875	
32-830	15/16	1.16	14.500	2.062	0.531	0.750	0.187	7.875	
32-832	1	1.14	14.500	2.062	0.531	0.750	0.187	7.875	
32-834	1-1/16	1.94	17.000	2.437	0.625	0.875	0.218	9.250	
32-836	1-1/8	1.71	17.000	2.437	0.625	0.875	0.218	9.250	
32-840	1-1/4	2.55	19.000	2.812	0.687	0.937	0.250	10.500	
32-842	1-5/16	2.37	19.000	2.812	0.687	0.937	0.250	10.250	
32-846	1-7/16	3.53	21.000	3.250	0.750	1.125	0.281	11.500	
32-848	1-1/2	3.55	21.000	3.250	0.750	1.125	0.281	11.500	
32-852	1-5/8	5.37	23.000	3.625	0.843	1.250	0.312	12.500	
32-858	1-3/16	7.74	25.000	4.437	0.937	1.375	0.437	13.500	
32-860	1-7/8	7.58	25.000	4.437	0.937	1.375	0.437	13.500	
32-864	2	7.95	25.000	4.437	0.937	1.375	0.437	13.500	



Striking Face Box Wrenches—45° Offset, 12-Point Lobular Opening

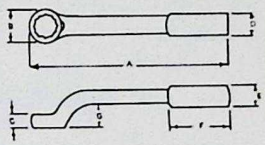
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Diameter	C Head Thickness	D Handle Width	E Handle Height	F Handle Length	G Offset Height
33-034	1-1/16	1.99	10.500	1.750	0.750	1.125	1.125	3.125	1.250
33-036	1-1/8	1.96	10.500	1.750	0.750	1.125	1.125	3.125	1.250
33-040	1-1/4	2.37	11.000	2.062	0.812	1.187	1.125	3.187	1.437
33-042	1-5/16	2.35	11.000	2.062	0.812	1.187	1.125	3.187	1.437
33-046	1-7/16	3.52	11.750	2.187	1.000	1.343	1.343	3.375	1.500
33-048	1-1/2	3.56	11.750	2.187	1.000	1.343	1.343	3.375	1.500
33-052	1-5/8	4.17	12.000	2.593	1.062	1.625	1.375	3.250	1.625
33-054	1-11/16	4.07	12.000	2.593	1.062	1.625	1.375	3.250	1.625
33-056	1-3/4	4.93	12.500	2.812	1.062	1.937	1.500	3.375	1.750
33-058	1-13/16	4.89	12.500	2.812	1.125	1.937	1.500	3.375	1.750
33-060	1-7/8	4.90	12.500	2.812	1.125	1.937	1.500	3.375	1.750
33-062	1-15/16	5.72	13.250	3.125	1.250	1.937	1.500	3.687	1.875
33-064	2	5.70	13.250	3.125	1.250	1.937	1.500	3.687	1.875
33-068	2-1/8	5.64	13.500	3.500	1.375	2.000	1.500	3.875	2.125
33-070	2-3/16	7.06	13.500	3.500	1.375	2.000	1.500	3.875	2.125
33-072	2-1/4	7.00	13.500	3.500	1.375	2.000	1.500	3.875	2.125
33-074	2-5/16	8.20	14.000	3.656	1.562	2.125	1.625	4.250	2.125
33-076	2-3/8	8.12	14.000	3.656	1.562	2.125	1.625	4.250	2.125
33-080	2-1/2	8.56	14.750	3.875	1.500	2.156	1.625	4.250	2.437
33-082	2-9/16	8.52	14.750	3.875	1.500	2.156	1.625	4.250	2.437
33-084	2-5/8	8.49	14.750	3.875	1.500	2.156	1.625	4.250	2.437
33-088	2-3/4	12.10	16.000	4.437	1.875	2.250	1.687	4.625	2.437
33-092	2-7/8	12.01	16.000	4.437	1.875	2.250	1.687	4.625	2.437
33-094	2-15/16	11.53	16.000	4.437	1.875	2.250	1.687	4.625	2.437
33-096	3	14.17	16.500	5.000	2.000	2.375	1.750	4.875	2.750
33-100	3-1/8	14.87	16.500	5.000	2.000	2.375	1.750	4.875	2.750

Always wear

Striking Face Box Wrenches—45° Offset, 12-Point Lobular METRIC

Product Number	Opening mm	Weight G	A Overall Length	B Head Diameter	C Head Thickness	D Handle Width	E Handle Height	F Handle Length	G Offset Height
59-032	32	1066	279.4	52.3	20.6	30.1	28.5	80.9	36.5
59-036	36	1610	298.4	55.5	25.4	34.1	34.1	85.7	38.1
59-041	41	1869	304.8	65.9	26.9	34.9	33.3	82.5	41.2
59-046	46	2227	317.5	71.4	28.6	41.2	39.6	85.7	44.4
59-050	50	2586	336.5	79.4	31.7	39.6	38.1	93.6	47.6
59-055	55	3193	342.9	88.9	34.9	44.4	38.1	98.4	53.9
59-060	60	3701	355.6	92.9	39.7	47.6	41.2	107.9	53.9
59-065	65	3869	374.6	98.4	38.1	47.6	41.2	107.9	61.8
59-070	70	5479	406.4	112.7	47.6	49.2	42.8	117.4	61.8
59-075	75	5235	406.4	112.7	47.6	49.2	42.8	117.4	61.8
59-080	80	6518	418.8	126.9	50.7	60.2	44.4	123.7	69.8

Sizes not listed are available on a special basis. Above 80 mm opening, and through 230 mm, we can furnish Straight Pattern, carbon steel plate wrenches with a flame-cut nominal opening, black finish. When ordering specially manufactured wrenches, please specify 6- or 12-point opening.



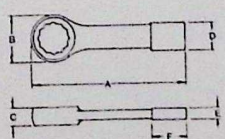
Striking Face Box Wrenches—Straight Pattern, 12-Point Lobular Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Diameter	C Head Thickness	D Handle Width	E Handle Height	F Handle Length
33-340	1-1/4	1.20	7.000	2.125	0.813	1.313	0.625	1.500
33-342	1-5/16	1.12	7.000	2.125	0.813	1.313	0.625	1.500
33-344	1-3/8	1.73	8.250	2.313	0.938	1.437	0.625	1.750
33-346	1-7/16	1.69	8.250	2.313	0.938	1.437	0.625	1.750
33-348	1-1/2	1.66	8.250	2.313	0.938	1.437	0.625	1.750
33-352	1-5/8	2.36	9.125	2.500	1.125	1.687	0.875	2.000
33-354	1-11/16	2.30	9.000	2.563	1.125	1.625	0.813	1.875
33-356	1-3/4	3.77	9.000	2.563	1.125	1.625	0.813	1.875
33-358	1-13/16	3.68	10.000	2.938	1.250	2.000	0.875	2.250
33-360	1-7/8	3.57	10.000	2.938	1.250	2.000	0.875	2.250
33-364	2	4.75	11.000	3.313	1.375	2.125	1.125	2.500
33-366	2-1/16	4.62	11.000	3.313	1.375	2.125	1.125	2.500
33-368	2-1/8	6.41	12.000	3.688	1.437	2.500	1.125	2.750
33-370	2-3/16	6.36	12.000	3.688	1.437	2.500	1.125	2.750
33-372	2-1/4	6.34	12.000	3.688	1.437	2.500	1.125	2.750
33-376	2-3/8	9.45	13.500	3.813	1.625	2.625	1.250	3.250
33-382	2-9/16	8.10	14.000	4.188	1.750	2.688	1.313	3.250
33-384	2-5/8	7.30	14.000	4.188	1.813	2.688	1.313	3.250
33-388	2-3/4	13.67	15.500	4.625	1.875	2.938	1.563	3.750
33-394	2-15/16	12.65	15.500	4.625	1.875	2.938	1.563	3.750
33-396*	3	18.52	18.000	5.250	2.000	3.625	1.625	4.000
33-400*	3-1/8	18.38	18.000	5.250	2.000	3.625	1.625	4.000
33-408*	3-3/8	18.38	18.000	5.250	2.000	3.625	1.625	4.000
33-412*	3-1/2	17.08	18.000	5.250	2.000	3.625	1.625	4.000
33-420*	3-3/4	21.50	19.000	6.000	2.250	3.750	1.750	4.000
33-424*	3-7/8	22.00	19.000	6.000	2.250	3.750	1.750	4.000
33-432*	4-1/8	26.00	19.500	6.625	2.437	3.875	1.750	4.250
33-436*	4-1/4	22.50	19.500	6.625	2.437	3.875	1.750	4.250
33-444*	4-1/2	32.50	21.000	7.000	2.750	4.000	1.937	5.000
33-448*	4-5/8	31.50	21.000	7.000	2.750	4.000	1.937	5.000
33-452†	4-3/4	40.00	24.000	7.625	2.000	3.875	2.000	3.437
33-460†	5	44 00	25.000	8.000	2.000	4.000	2.000	3.500
33-468†	5-1/4	46.00	26.000	8.250	2.000	3.250	2.000	2.875
33-472†	5-3/8	50.50	27.000	8.750	2.000	3.750	2.000	3.625
33-476†	5-1/2	54.00	28.000	8.875	2.000	3.500	2.000	3.125
33-484†	5-3/4	57.00	28.563	9.125	2.000	4.375	2.000	3.750
33-492†	6	61.50	30.000	9.250	2.000	3.750	2.000	3.125

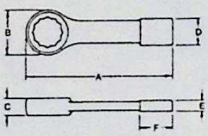
Sizes not listed are available on a special basis. Above 80 mm opening, and through 230 mm, we can furnish Straight Pattern, carbon steel plate wrenches with a flame-cut nominal opening, black finish. When ordering specially manufactured wrenches, please specify 6- or 12-point opening.

*Drop Forged from Carbon Steel

†Flame-cut opening, made from Carbon Steel.



For Federal Specification Guidelines, see Appendix A.

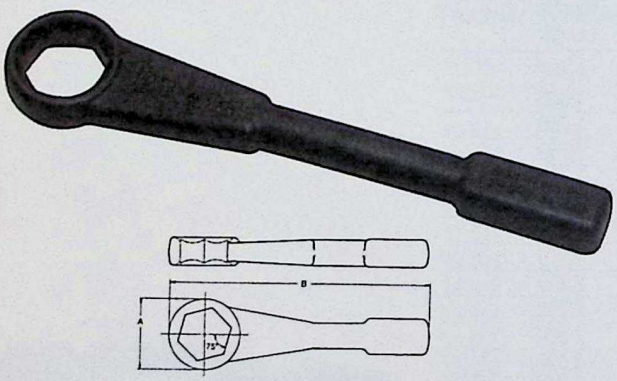


Striking Face Box Wrenches—Straight Pattern 12-Point Lobular Opening

METRIC

Product Number	Opening mm	Weight G	A Overall Length	B Head Diameter	C Head Thickness	D Handle Width	E Handle Height	F Handle Length
59-332	32	544	177.8	52.4	20.6	33.3	15.9	38.1
59-336	36	761	209.5	58.7	23.8	36.5	15.9	44.4
59-341	41	1069	228.6	63.5	28.6	41.3	20.6	47.6
59-346	46	1653	254.4	74.6	31.7	50.8	22.2	57.1
59-350	50	2161	279.4	84.1	34.9	53.9	28.5	63.5
59-355	55	2881	304.8	93.6	36.5	63.5	28.5	69.8
59-360	60	4281	342.9	96.8	41.3	68.2	41.3	90.5
59-365	65	4951	355.6	104.8	46.0	68.2	33.3	82.5
59-370	70	6193	393.7	117.5	47.6	74.6	39.7	95.2
59-375	75	8390	457.2	130.2	50.8	82.5	41.3	120.6
59-380	80	8340	457.2	130.2	50.8	82.5	41.3	120.6

NEW!



Striking Face Box Wrenches—Straight Pattern 6-Point Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Diameter
33-534	1-1/16	1.90	9-7/8	1.781
33-540	1-1/4	2.10	10-1/4	2.000
33-546	1-7/16	2.60	10-9/16	2.266
33-552	1-5/8	2.90	11	2.484
33-558	1-13/16	3.50	11-5/16	2.656
33-564	2	4.00	11-11/16	3.031
33-570	2-3/16	5.20	12	3.281
33-576	2-3/8	6.00	12-3/8	3.406
33-582	2-9/16	6.60	12-11/16	3.750
33-588	2-3/4	7.50	13-1/16	4.172
33-594	2-15/16	7.90	13-7/16	4.359
33-600	3-1/8	9.40	13-13/16	4.484
33-612	3-1/2	10.50	14-1/8	4.969
33-624	3-7/8	13.30	14-1/2	5.547

Face Spanner Wrenches

Product Number	Pin Specifications: Distance, C to C, Inches	Diameter, Inches	Height, Inches	Length, Inches	Weight, Lbs.
34-101	1	3/16	3/16	4-1/2	.11
34-104	1-1/4	7/32	7/32	5	.14
34-107	1-1/2	7/32	7/32	5-1/2	.18
34-110	1-3/4	7/32	7/32	6	.27
34-113	2	1/4	1/4	6-1/2	.35
34-116	2-1/4	1/4	1/4	7	.40
34-119	2-1/2	9/32	9/32	7-1/2	.51
34-121	2-3/4	9/32	9/32	8	.57
34-124	3	5/16	5/16	8-1/2	.57
34-127	3-1/4	5/16	5/16	9-1/8	.73
34-130	3-1/2	5/16	5/16	9-3/4	.73
34-133	3-3/4	3/8	3/8	10-3/8	.90
34-136	4	3/8	3/8	11	.97

Pins forged integral with wrench and milled to exact sizes listed.

Always wear eye protection when

Adjustable Face Spanner Wrenches

Product Number	Capacity, Inches	Pin Specifications: Extreme Diameter, Inches	Pin Specifications: Height, Inches	Pin Specifications: Length, Inches	Weight, Lbs.
34-151	2	3/16	1/8	6-3/8	.32
34-154	3	1/4	3/16	8-1/4	.57
34-157	4	5/16	1/4	10-3/8	.99

Pins forged integral with wrench and milled to exact sizes listed.

Pin Spanner Wrenches

Product Number	Diameter, Inches	Pin Specifications: For Circle Diameter, Inches	Pin Specifications: Height, Inches	Pin Specifications: Length, Inches	Weight, Lbs.
34-201	1	3/16	5/32	4	.09
34-204	1-1/4	13/64	5/32	4-1/2	.12
34-207	1-1/2	7/32	3/16	5	.14
34-210	1-3/4	15/64	3/16	5-1/2	.22
34-213	2	1/4	7/32	6	.27
34-216	2-1/4	17/64	1/4	6-1/2	.30
34-219	2-1/2	9/32	9/32	7	.57
34-222	2-3/4	19/64	9/32	7-1/2	.45
34-225	3	5/16	9/32	8	.59
34-228	3-1/4	21/64	9/32	8-1/2	.60
34-231	3-1/2	11/32	5/16	9	.77
34-234	3-3/4	23/64	11/32	9-1/2	.95
34-237	4	3/8	11/32	10	1.12
34-240	5	7/16	13/32	12	1.58
34-243	6	1/2	9/16	14	2.46

Pins forged integral with wrench and milled to exact sizes listed.

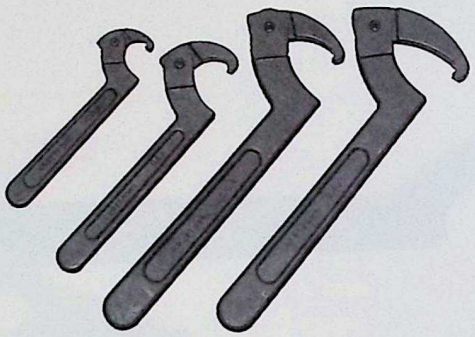
Adjustable Hook Spanner Wrenches

Product Number	Capacity Range for Diameters, Inches	Hook Specifications: Thickness, Inches	Hook Specifications: Depth, Inches	Hook Specifications: Length, Inches	Weight, Pounds
34-301	3/4-2	11/32	1/8	6-3/8	.27
34-305	1-1/4-3	13/32	5/32	8-1/8	.53
34-307	2-4-3/4	15/32	3/16	11-3/8	1.06
34-310	4-1/2-6-1/4	15/32	1/4	12-1/8	1.23
34-313	6-1/8-8-3/4	15/32	5/16	13-3/4	1.36

Adjustable Pin Spanner Wrenches

Product Number	Capacity Range for Diameters, Inches	Hook Thickness, Inches	Pin Specifications			
			Diameter, Inches	Height, Inches	Length, Inches	Weight, Lbs.
34-351	3/4-2	11/32	1/8	1/8	6-3/8	.27
34-354	3/4-2	11/32	3/16	5/32	6-3/8	.27
34-358	1-1/4-3	13/32	3/16	3/16	8-1/8	.53
34-361	1-1/4-3	13/32	1/4	7/32	8-1/8	.49
34-363	2-4-3/4	15/32	1/4	1/4	11-3/8	1.07
34-366	4-1/2-6-1/4	15/32	3/8	1/4	12-1/8	1.20

Pins forged integral with wrench and milled to exact sizes listed.



Hook Spanner Set No. 34-376

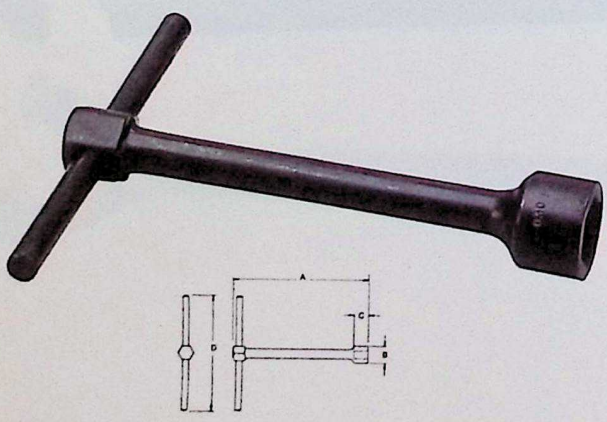
Contents: 4 Adjustable Hook Spanners in cardboard box.

Approximate weight, 3.10 lbs.

Product Number	Capacity
34-301	3/4-2
34-305	1-1/4-3
34-307	2-4-3/4
34-310	4-1/2-6-1/4

Adjustable Wrenches, Black Finish

Product Number	Length, Inches	Capacity, Inches	Weight, Pounds
34-404	4	1/2	.12
34-406	6	3/4	.26
34-408	8	1	.54
34-410	10	1-1/8	.90
34-412	12	1-5/16	1.42
34-415	15	1-11/16	3.37
34-418	18	2-1/16	5.56



T-Handle Socket Wrenches 6-Point Opening

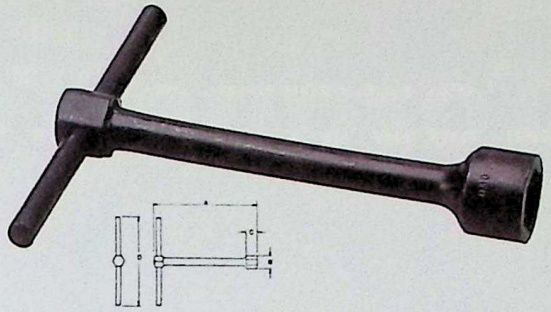
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Diameter	C Depth of Punch	D Handle Length
35-010	5/16	.12	4.250	0.500	0.375	4.250
35-012	3/8	.21	4.500	0.625	0.437	4.000
35-014	7/16	.24	4.875	0.687	0.500	4.000
35-016	1/2	.37	5.375	0.750	0.562	5.000
35-018	9/16	.48	5.875	0.875	0.625	5.000
35-020	5/8	.55	6.125	1.000	0.656	5.000
35-024	3/4	.79	6.625	1.125	0.687	5.750
35-034	1-1/16	1.90	8.375	1.625	1.062	8.000

Pin handle can be driven out allowing use of wrench on hexagon end of shank.

Always wear eye prot

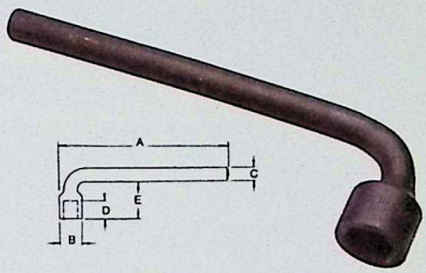
T-Handle Socket Wrenches, 4-Point Opening

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Diameter	C Depth of Punch	D Handle Length
35-108	1/4	.11	4.250	0.500	0.375	3.500
35-110	5/16	.20	4.500	0.625	0.437	4.000
35-112	3/8	.24	4.875	0.687	0.500	4.000
35-114	7/16	.49	5.875	0.875	0.625	5.000
35-116	1/2	.56	6.125	1.000	0.625	5.000



Offset Socket Wrenches 4-Point Opening

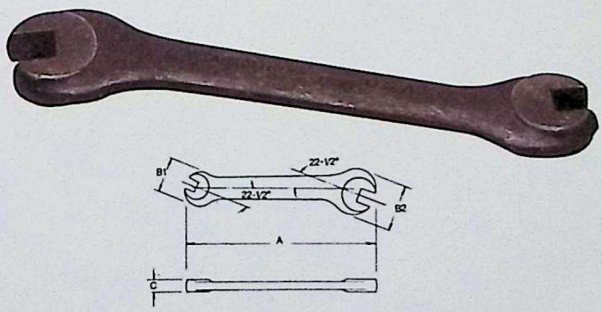
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Diameter	C Handle Diameter	D Depth of Punch	E Offset Height
35-310	5/16	.17	4.500	0.625	0.375	0.437	1.000
35-316	1/2	.47	6.500	1.000	0.500	0.625	1.562
35-320	5/8	.94	8.000	1.250	0.625	0.687	1.812
35-324	3/4	1.02	8.375	1.375	0.625	0.750	2.000
35-328	7/8	1.67	10.000	1.625	0.750	0.875	2.375



Set Screw Wrenches—Double Head Pattern

Product Number	Opening Inches	Weight Lbs.	A Overall Length	B1 Head Width	B2 Head Width	C Head Thickness
35-451	3/16-1/4	.07	3.375	0.906	0.656	0.187
35-457	1/4-5/16	.11	4.000	1.062	0.750	0.250
35-463	5/16-3/8	.17	5.000	1.218	0.937	0.312
35-466	3/8-7/16	.32	5.875	1.375	1.250	0.343
35-469	3/8-1/2	.42	6.625	1.312	1.625	0.375
35-472	7/16-1/2	.44	6.625	1.312	1.625	0.375
35-478	1/2-5/8	.94	8.375	1.625	2.125	0.531

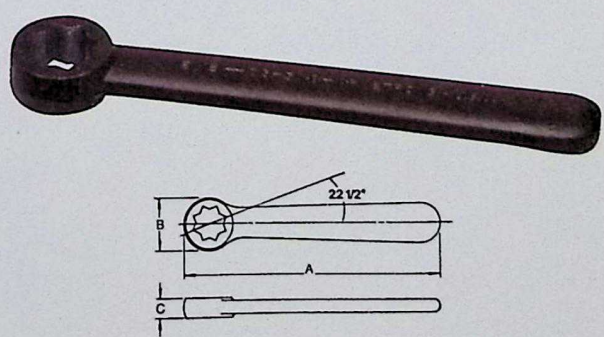
For square head screws and nuts. Openings offset 22-1/2° to handle.



Set Screw Wrenches—Square Box Pattern

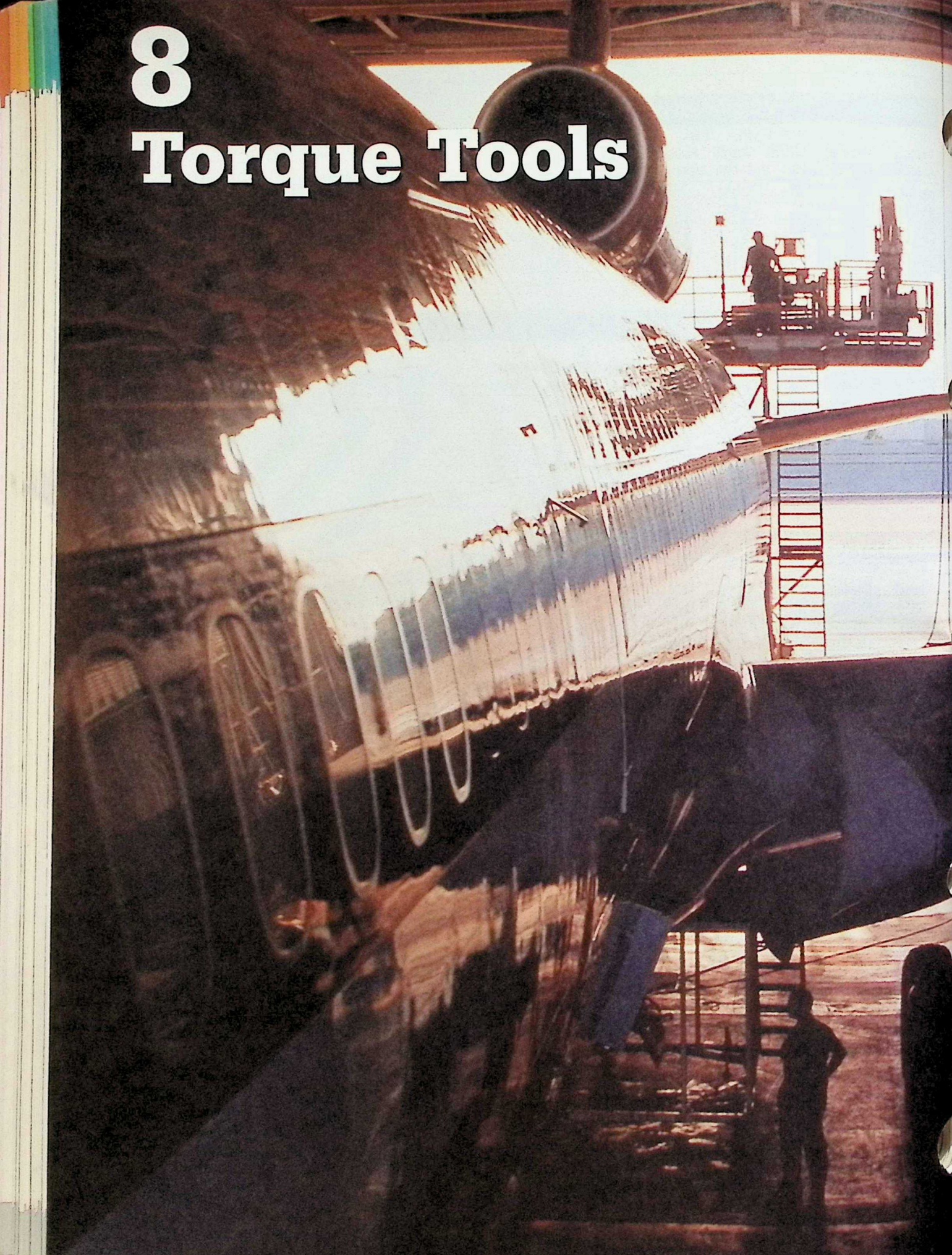
Product Number	Opening Inches	Weight Lbs.	A Overall Length	B Head Width	C Head Thickness
35-510	5/16	.08	3.750	0.687	0.312
35-512	3/8	.17	4.250	0.781	0.343
35-514	7/16	.19	4.875	0.968	0.375
35-516	1/2	.27	5.500	1.000	0.437
35-518	9/16	.36	6.250	1.187	0.500
35-520	5/8	.57	7.000	1.312	0.562
35-524	3/4	.80	8.000	1.562	0.625
35-528	7/8	1.20	9.000	1.750	0.656
35-532	1	1.45	10.000	2.000	0.750

For Square head screws and nuts. 8-Point Opening offset 22-1/2° to handle.



Federal Specification Guidelines, see Appendix A.

8
Torque Tools



Torque Tools

The broad line of Armstrong Torque Tools—from the most basic "beam" wrench to sophisticated computer models—affords the user a selection to meet any need.

Every Armstrong Torque Tool is a quality-made precision instrument, guaranteed with specified limits of accuracy, and designed to provide years of dependable service when properly used and maintained.

- Deflecting Beam Torque Wrenches
- Micrometer Adjustable "Clicker" Style Torque Wrenches
- Dial Torque Wrenches
- NEW! Computorq II Torque Wrenches
- Screwdriver Style Torque Wrenches
- Torque Multipliers
- NEW! Torque Testers

"CLICKER" STYLE TORQUE WRENCH

COMPUTORQ II

TORQUE TESTER

ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS

NEW!

1/4" Torque Screwdrivers

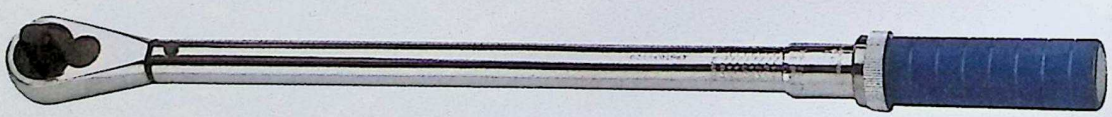
Armstrong Torque Screwdrivers feature a "clutch-type" release mechanism which prevents over-torquing. Anodized aluminum handles are lightly knurled and grooved, providing comfortable, non-slip gripping surface. Torque Screwdrivers are furnished in a fitted, blow-molded plastic case, and a 1/4" Drive Female Hex Adapter is included. Calibration is +/– 6% between 20% and 100% of the tool's range.

Product Number	PRIMARY SCALE Range	Incr.	Length Inches	Weight Lbs.
64-002	20-100 In/oz	2 In/oz	6.8	.79
64-005	6-36 In/Lb	.5 In/Lb	6.8	.79

Screwdrivers with Metric scales are available on special order.

Micrometer Adjustable "Clicker" Torque Wrenches

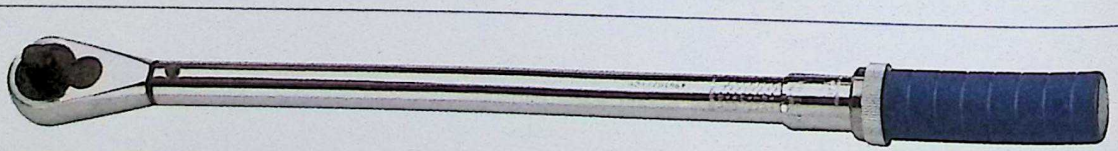
Micrometer Adjustable "Clicker" Torque Wrenches emit an audible click and an impulse when torque setting has been reached. When pressure is relieved, tool re-sets automatically. Ball-bearing signal mechanism assures repeatability and accuracy, and eliminates speed sensitivity errors. Tools are calibrated in the right-hand direction only, accuracy is +/– 3% between 20% and 100% of the range, and a factory calibration tape is supplied with each wrench. (Left-hand calibration is available on special order.) All Armstrong Micrometer Adjustable Torque Wrenches comply with both American Standard ANSI/ASME B107.14M and International Standard ISO 6789. Recalibration is done externally, so there's no need to disassemble the wrench. Newly-designed tear-drop ratchet heads are compact, stronger and extremely durable. O-Ring seal below ratchet head keeps lubrication in, and dirt and other contaminants out. Scale graduations, in both SAE and Nm, are clearly stamped onto spring tube and thimble, and setting remains visible at all times. Detent-style locking collar prevents accidental change of torque setting. New anodized aluminum handles are lightly knurled and grooved to provide a comfortable, non-slip gripping surface; handles are finished in "Armstrong Blue". All 1/4" through 1/2" Drive models are furnished in a fitted, blow-molded plastic case. 3/4" Drive models are furnished in a steel case.



NEW!

1/4" Micrometer Adjustable "Clicker" Torque Wrenches, Ratchet Head

Product Number	PRIMARY SCALE Range	Incr.	ALTERNATE SCALE Range	Incr.	Head Width	Head Length	Head Thickness less tang	Head Thickness with tang	Length Inches	Weight Lbs.
64-031	5-50 In/Lb	1 In/Lb	—	—	1.063	1.672	0.469	0.813	8.0	.71
64-032	30-200 In/Lb	1 In/Lb	4-23 Nm	.11 Nm	1.063	1.672	0.469	0.813	9.5	.76
64-038	4-25 Nm	.1 Nm	—	—	1.063	1.672	0.469	0.813	9.5	.76

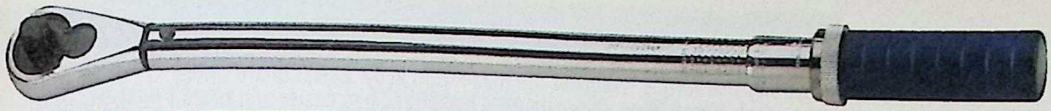


NEW!

3/8" Micrometer Adjustable "Clicker" Torque Wrenches, Ratchet Head

Product Number	PRIMARY SCALE Range	Incr.	ALTERNATE SCALE Range	Incr.	Head Width	Head Length	Head Thickness less tang	Head Thickness with tang	Length Inches	Weight Lbs.
64-041	50-250 In/Lb	1 In/Lb	6-29 Nm	.11 Nm	1.063	1.672	0.469	0.969	9.5	.76
64-042	100-1000 In/Lb	5 In/Lb	14-116 Nm	.6 Nm	1.500	2.125	0.563	1.063	17.1	2.05
64-046	10-100 Ft/Lb	.5 Ft/Lb	17-139 Nm	.7 Nm	1.500	2.125	0.563	1.063	17.1	2.05
64-049	10-100 Nm	1 Nm	—	—	1.500	2.125	0.563	1.063	17.1	2.05

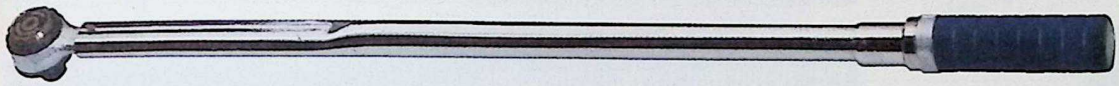
Always wear eye prot



1/2" Micrometer Adjustable "Clicker" Torque Wrenches, Ratchet Head

NEW!

Product Number	PRIMARY SCALE Range	Incr.	ALTERNATE SCALE Range	Incr.	Head Width	Head Length	Head Thickness less tang	Head Thickness with tang	Length Inches	Weight Lbs.
64-081	240-1800 In/Lb	12 In/Lb	34-210 Nm	1.4 Nm	1.750	3.125	0.766	1.438	20.5	2.45
64-082	300-3000 In/Lb	12 In/Lb	43-348 Nm	1.4 Nm	1.750	3.125	0.766	1.438	20.5	2.45
64-084	10-100 Ft/Lb	.5 Ft/Lb	17-139 Nm	.7 Nm	1.500	2.125	0.563	1.250	17.1	2.05
64-085	10-150 Ft/Lb	1 Ft/Lb	20-210 Nm	1.4 Nm	1.750	3.125	0.766	1.438	20.5	2.45
64-086	25-250 Ft/Lb	1 Ft/Lb	43-348 Nm	1.4 Nm	1.750	3.125	0.766	1.438	20.5	2.45
64-089	40-340 Nm	2 Nm	—	—	1.750	3.125	0.766	1.438	20.5	2.45



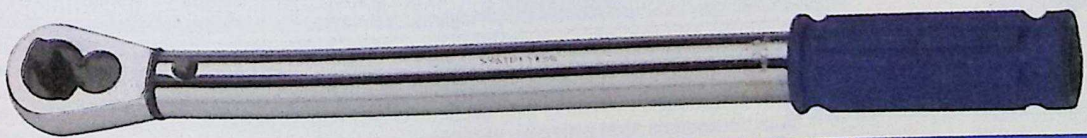
3/4" Micrometer Adjustable "Clicker" Torque Wrenches, Ratchet Head

NEW!

Product Number	PRIMARY SCALE Range	Incr.	ALTERNATE SCALE Range	Incr.	Head Width	Head Length	Head Thickness less tang	Head Thickness with tang	Length Inches	Weight Lbs.
64-094	50-400 Ft/Lb	2.5 Ft/Lb	85-559 Nm	3.4 Nm	2.375	3.063	1.531	2.500	33.0	9.62
64-095	100-600 Ft/Lb	2.5 Ft/Lb	153-830 Nm	3.4 Nm	2.375	3.063	1.531	2.500	40.5	10.72
64-099	150-800 Nm	2.5 Nm	—	—	2.375	3.063	1.531	2.500	40.5	10.72

Pre-Set "Clicker" Torque Wrenches

Pre-Set "Clicker" Torque Wrenches are ideal for assembly operations where the torque setting rarely needs to be changed. A specific torque value can be pre-set at our factory prior to shipment, or by your authorized personnel if torque calibrating equipment is available. (If no pre-set value is specified at time of order, tool will be set at or near the lowest value within the range.) Pre-Set Torque Wrenches share all the quality features outlined above for Micrometer Adjustable Torque Wrenches, except that handle grip is rubber, rather than anodized aluminum. Furnished in a fitted, blow-molded plastic case.



Pre-Set Torque Wrenches, Ratchet Head

NEW!

Product Number	Drive Size	Primary Scale Range	Alternate Scale Range	Head Width	Head Length	Head Thickness less tang	Head Thickness with tang	Length Inches	Weight Lbs.
64-212	1/4"	30-200 In/Lb	4-25 Nm	1.063	1.672	0.469	0.813	9.5	.76
64-221	3/8"	50-250 In/Lb	6-29 Nm	1.063	1.672	0.469	0.969	9.5	.76
64-226	3/8"	10-100 In/Lb	17-139 Nm	1.500	2.125	0.563	1.063	17.1	2.05
64-236	1/2"	25-250 Ft/Lb	43-348 Nm	1.750	3.125	0.766	1.438	20.5	2.45

SAFETY NOTICE

NEVER USE CHEATER BARS.

DO NOT EXCEED SPECIFIED TORQUE RANGES ON FASTER OR TORQUE WRENCH.

PERIODIC CALIBRATION IS NECESSARY TO MAINTAIN ACCURACY. WE RECOMMEND THIS BE DONE AT LEAST ONCE A YEAR OR EVERY 10,000 TORQUE APPLICATIONS.

...lication Guidelines, see Appendix A.

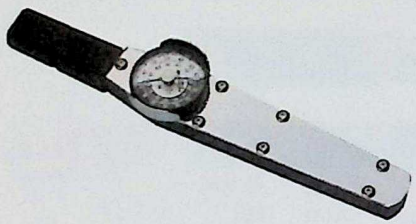
Dial Torque Wrenches

Armstrong Dial Torque Wrenches are made from alloy steel; square drives are drop forged and carefully heat treated, Over-size dials make readings easier and permit guaranteed accuracy-left or right-of ± 2%. (Super accurate models, calibrated to ± 1%, are available on special order at an additional charge.) Heavy duty guards protect dials on all models.

Dual scales-in fractional and Metric-are standard on all wrenches. All wrenches furnished in fitted, blow-molded plastic cases. (1" Drive models are furnished in steel cases.)

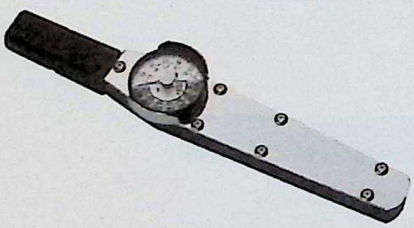
Standard on all wrenches through 600 ft./lb. capacity, the follower needle style has an additional memory pointer which remains at the highest torque value attained. Allows for quick, positive verification of actual torque value applied to fastener, making these tools ideal for break-away tests.

Models 64-458, 64-502 and 64-505 are equipped with an electric light signal dial. Extra pointer is set at desired torque value; when that level has been reached, light flashes on. When tension is released, light goes off. Note that tension must be released immediately after signal lights to prevent over-torquing.



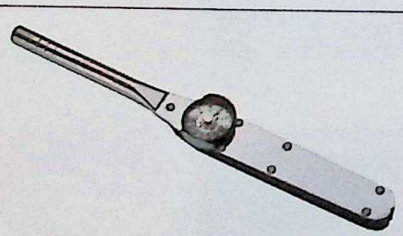
1/4" Drive Dial Torque Wrenches

Product Number	PRIMARY SCALE Range	Incr.	SECONDARY SCALE Range	Incr.	Length Inches	Weight Lbs.
64-302	0-75 In/Lb	1 In/Lb	0-9 Nm	.2 Nm	10.0	1.75



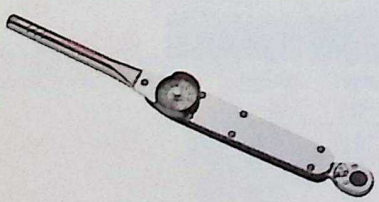
3/8" Drive Dial Torque Wrenches

Product Number	PRIMARY SCALE Range	Incr.	SECONDARY SCALE Range	Incr.	Length Inches	Weight Lbs.
64-352	0-250 In/Lb	5 In/Lb	0-30 Nm	.5 Nm	10.0	1.75
64-355	0-600 In/Lb	20 In/Lb	0-70 Nm	2 Nm	14.9	2.00
64-358	0-50 Ft/Lb	1 Ft/Lb	0-70 Nm	2 Nm	14.9	2.00



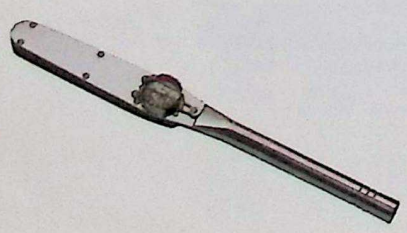
1/2" Drive Dial Torque Wrenches

Product Number	PRIMARY SCALE Range	Incr.	SECONDARY SCALE Range	Incr.	Length Inches	Weight Lbs.
64-402	0-175 Ft/Lb	5 Ft/Lb	0-240 Nm	5 Nm	22.5	3.75
64-405	0-250 Ft/Lb	5 Ft/Lb	0-350 Nm	10 Nm	22.5	3.75



1/2" Drive Dial Torque Wrenches, Ratchet Head

Product Number	PRIMARY SCALE Range	Incr.	SECONDARY SCALE Range	Incr.	Length Inches	Weight Lbs.
64-407	0-250 Ft/Lb	5 Ft/Lb	0-350 Nm	10 Nm	24.0	4.00



3/4" Drive Dial Torque Wrenches with Wire Dial Guard

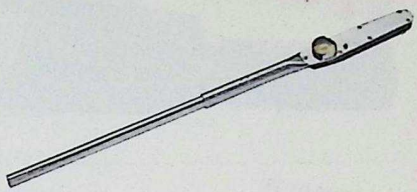
Product Number	PRIMARY SCALE Range	Incr.	ALTERNATE SCALE Range	Incr.	Length Inches	Weight Lbs.
64-452	0-350 Ft/Lb	10 Ft/Lb	0-480 Nm	10 Nm	27.8	7.90

3/4" Drive Dial Torque Wrenches

Equipped with an extension.

Product Number	PRIMARY SCALE Range	Incr.	SECONDARY SCALE Range	Incr.	Length Inches	Weight Lbs.
64-455	0-600 Ft/Lb	10 Ft/Lb	0-800 Nm	20 Nm	46.5	9.50
64-458*	0-600 Ft.Lb	10 Ft/Lb	0-800 Nm	20 Nm	46.5	9.50

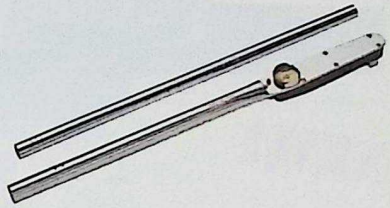
*Features electric light signal dial.



1" Drive Dial Torque Wrench, with Electric Light Signal Dial

Equipped with an extension.

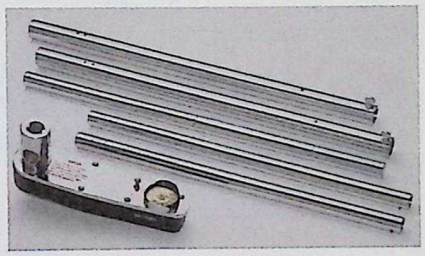
Product Number	PRIMARY SCALE Range	Incr.	SECONDARY SCALE Range	Incr.	Length Inches	Weight Lbs.
64-502	0-1000 Ft/Lb	25 Ft/Lb	0-1400 Nm	25 Nm	74.37	20.80



1" Drive Dial Torque Wrench, with Electric Light Signal Dial

Equipped with topside 1" square female drive for use with torque multiplier. Also equipped with 4 extensions.

Product Number	PRIMARY SCALE Range	Incr.	SECONDARY SCALE Range	Incr.	Length Inches	Weight Lbs.
64-505	0-2000 Ft/Lb	50 Ft/Lb	0-2800 Nm	50 Nm	110.8	43.65



64-515 Wire Dial Guard

Designed especially for use in mines. Heavy, fabricated wire guard is mounted to case in addition to standard dial guard. Fits all 1/2" and 3/4" drive Dial Torque Wrenches, and is furnished standard on 64-452.

Computorq II Electronic Torque Wrenches

The Computorq II is the most versatile, most sophisticated and yet most user friendly electronic torque measuring devices available today. Computorq II operates in any torque unit (Ft/Lb, In/Lb, In/Oz, Nm, dNm, Mkg, and cmkg), and up to 500 torque values can be stored in its memory. A target torque value, along with high and low percentage tolerances, can be pre-set, and the tool indicates when the chosen value has been attained via lights and an audible tone. Value remains on display screen until it's erased or sent to memory. One or all torque values stored in tool's memory can be called up by the operator, in sequence of operation. Best of all, Computorq II is equipped with a cable port which allows individual torque values or stored memory to be down-loaded directly to a printer, computer or data logger via RS232.

Computorq II is accurate to +/– 1% in either direction from 10% to 100% of a given tool's range. Recalibration, when necessary, can be accomplished through the keypad – there's no need to return the tool to the factory for routine recalibration. Each tool is furnished in a fitted, blow-molded plastic case, along with an easy-to-follow 16-page instructional manual.

1/4" Drive Computorq II Electronic Torque Wrench

Product Number	PRIMARY SCALE Range	Increments	Length Inches	Weight Lbs.
64-552	5-50 In/Lb	.02 In/Lb	13.5	1.5

NEW!

3/8" Drive Computorq II Electronic Torque Wrench

Product Number	PRIMARY SCALE Range	Increments	Length Inches	Weight Lbs.
64-562	25-250 In/Lb	.10 In/Lb	14.9	2.0
64-566	5-50 Ft/Lb	.02 Ft/Lb	14.9	2.0

NEW!

1/2" Drive Computorq II Electronic Torque Wrench

Product Number	PRIMARY SCALE Range	Increments	Length Inches	Weight Lbs.
64-576	25-250Ft/Lb	.10 Ft/Lb	21.5	3.2

NEW!

3/4" Drive Computorq II Electronic Torque Wrench

Product Number	PRIMARY SCALE Range	Increments	Length Inches	Weight Lbs.
64-586	60-600 Ft/Lb	.20 Ft/Lb	46.5	9.5

NEW!

1" Drive Computorq II Electronic Torque Wrench

Product Number	PRIMARY SCALE Range	Increments	Length Inches	Weight Lbs.
64-592	100-1000 Ft/Lb	.30 Ft/Lb	74.0	19.0

NEW!

Electronic Torque Testers

Sturdy housing permits mounting either vertically to a wall, or horizontally to a workbench. The unique neck design allows easy viewing of display screen in either position, or even when operator is testing long-handled torque wrenches. Tool is also capable of testing power tools, but should never be subjected to impact. Armstrong Electronic Torque Testers operate in either of two popular torque units, as outlined in the table below. They read bi-directionally, and feature both a first peak mode (making tool ideal for breakaway tests) and a track mode. Accuracy is +/–.5% in either direction from 10% to 100% of full range. A power adapter cord and a female-to-female socket adapter are included. Each tester is furnished in a fitted, blow-molded plastic box, along with an instructional manual.

Electronic Torque Testers

Product Number	Drive Size	Primary Scale Range	Secondary Scale Range	Weight Lbs.
64-622	1/4"	5-50 In/Lb	5.6-56 dNm	4.5
64-632	3/8"	25-250 In/Lb	28-280 dNm	4.5
64-636	3/8"	100-1000 In/Lb	113-1130 dNm	4.5
64-646	1/2"	25-250 Ft/Lb	34-340 Nm	4.5
64-656	3/4"	60-600 Ft/Lb	81-813 Nm	5.0

SAFETY NOTICE

ALWAYS POSITION REACTION BAR SOLIDLY AGAINST AN OBJECT WITH SUFFICIENT BULK TO WITHSTAND THE GENERATED FORCE.

BE SURE TO HAVE A CLEAN, SECURE GRIP ON THE INPUT WRENCH TO AVOID KICK-BACK.

ALWAYS USE HEAVY DUTY POWER/IMPACT SOCKETS.

DO NOT USE WITH POWER DRIVE TOOLS.

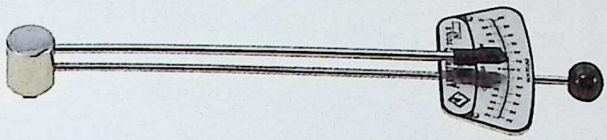
COVER APPLICATIONS WITH APPROPRIATE SHIELD.

DO NOT EXCEED INPUT CAPACITY.

Always wear eye protection

Deflecting Beam Torque Wrenches

Armstrong Deflecting Beam Torque Wrenches have dual scales–one wrench does the work of two. Dual scales are available in in. lbs./Nm., or ft. lbs./Nm. Wrenches can be used on either left or right handed nuts and bolts with certified accuracy. Handle is pivoted to beam yoke so the "length" (distance from drive point to load point) remains constant for precise measurement. Satin finish scale is easy to read, and comfortable handle insures natural grip for smooth operation.



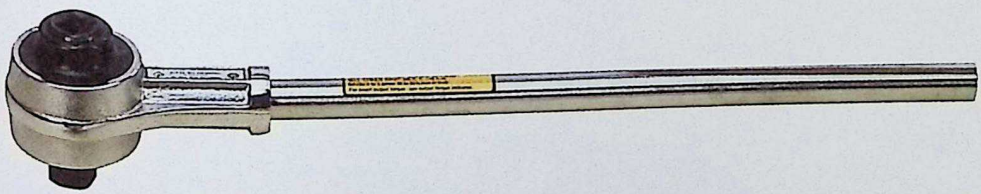
Deflecting Beam Torque Wrenches

Product Number	Drive Size	PRIMARY SCALE Range	PRIMARY SCALE Incr.	SECONDARY SCALE Range	SECONDARY SCALE Incr.	Length Inches	Weight Lbs.
64-720	1/4"	0-60 in. lbs.	2.5 in. lbs.	0-7 Nm	.25 Nm	11.0	.50
64-730	3/8"	0-600 in. lbs.	25.0 in. lbs.	0-70 Nm	5 Nm	15.0	.80
64-740	1/2"	0-150 ft. lbs.	5 ft. lbs.	0-200 Nm	10 Nm	18.3	1.50

Torque Multipliers

Armstrong Torque Multipliers provide the operator with nut-turning power that requires only from one fourth to one sixth the force necessary when a torque wrench or other drive tool is used alone.

Input and output rotation are in the same direction, while rotation of the reaction bar is in the opposite direction. Thus, reaction bar must rest solidly against an object with sufficient bulk to withstand the force which will be generated. Two torque multipliers may be used in tandem to effect multiple ratios where extreme turning power is required. For example, 64-813 may be engaged with 64-821 to provide an output ratio of 24 to 1.



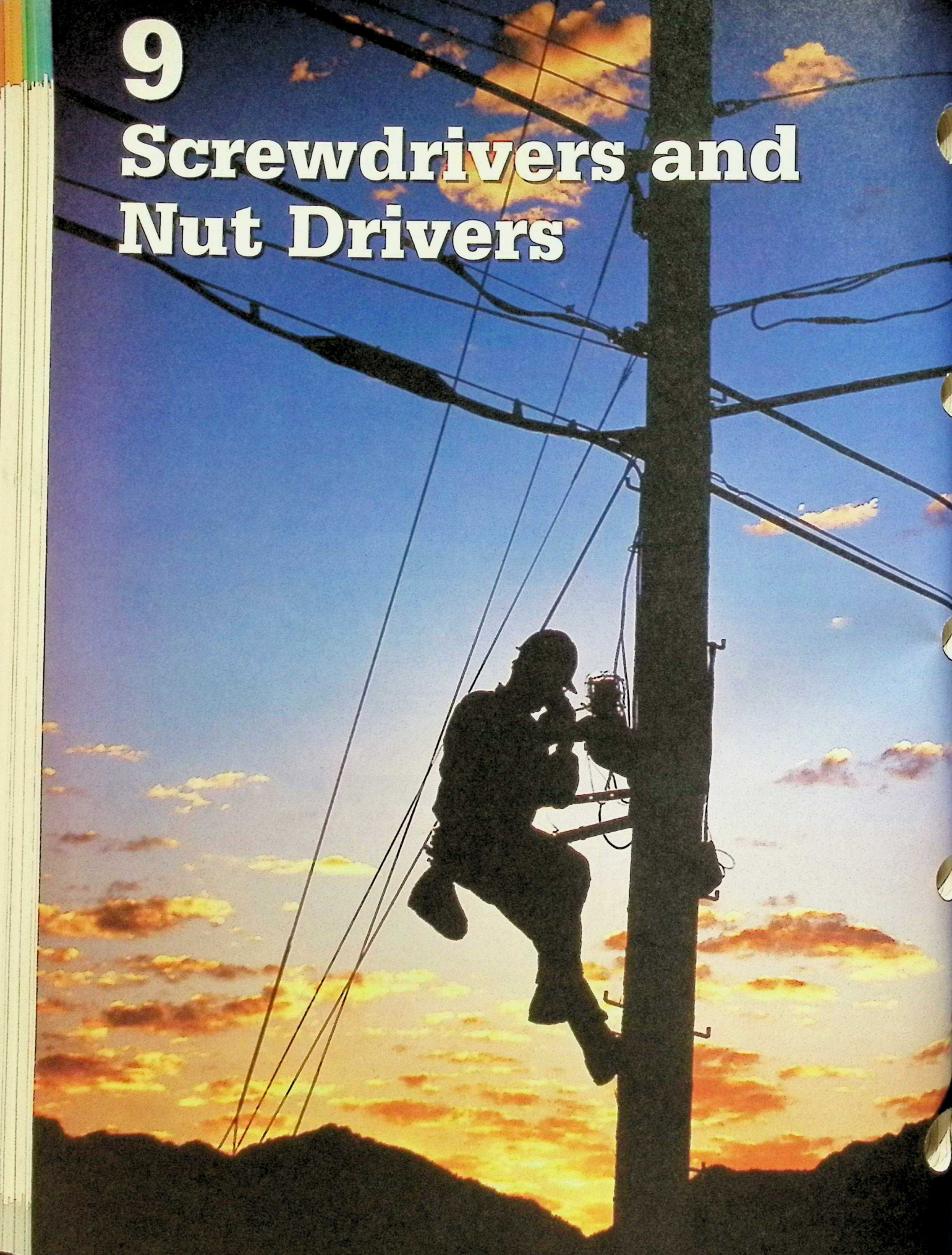
Torque Multipliers

Product Number	Max. Output Ft/Lbs	Output Ratio	Max. Input, Ft/Lbs	Input Drive	Output Drive	Head Diameter	Head Thickness less tang	Head Thickness with tang	Length, Inches	Weight, Lbs.
64-810	1,000	4 to 1	250	1/2"	3/4"	3.500	2.625	3.625	22-1/2	6.10
64-813	2,000	4 to 1	500	3/4"	1"	3.750	3.250	4.500	25-1/2	12.58
64-816	4,000	4.33 to 1	925	1"	1-1/2"	5.310	4.250	6.220	29-3/4	26.50
64-819	8,000	4.33 to 1	1850	1"	1-1/2"	6.500	4.625	6.500	36-1/8	47.05

Torque Multipliers

Product Number	Max. Output Ft/Lbs	Output Ratio	Max. Input, Ft/Lbs	Input Drive	Output Drive	Head Diameter	Head Thickness less tang	Head Thickness with tang	Length, Inches	Weight, Lbs.
64-821	12,000	6 to 1	2000	1"	2-1/2"	8.750	4.625	7.375	40-1/2	79.18

Guidelines, see Appendix A.



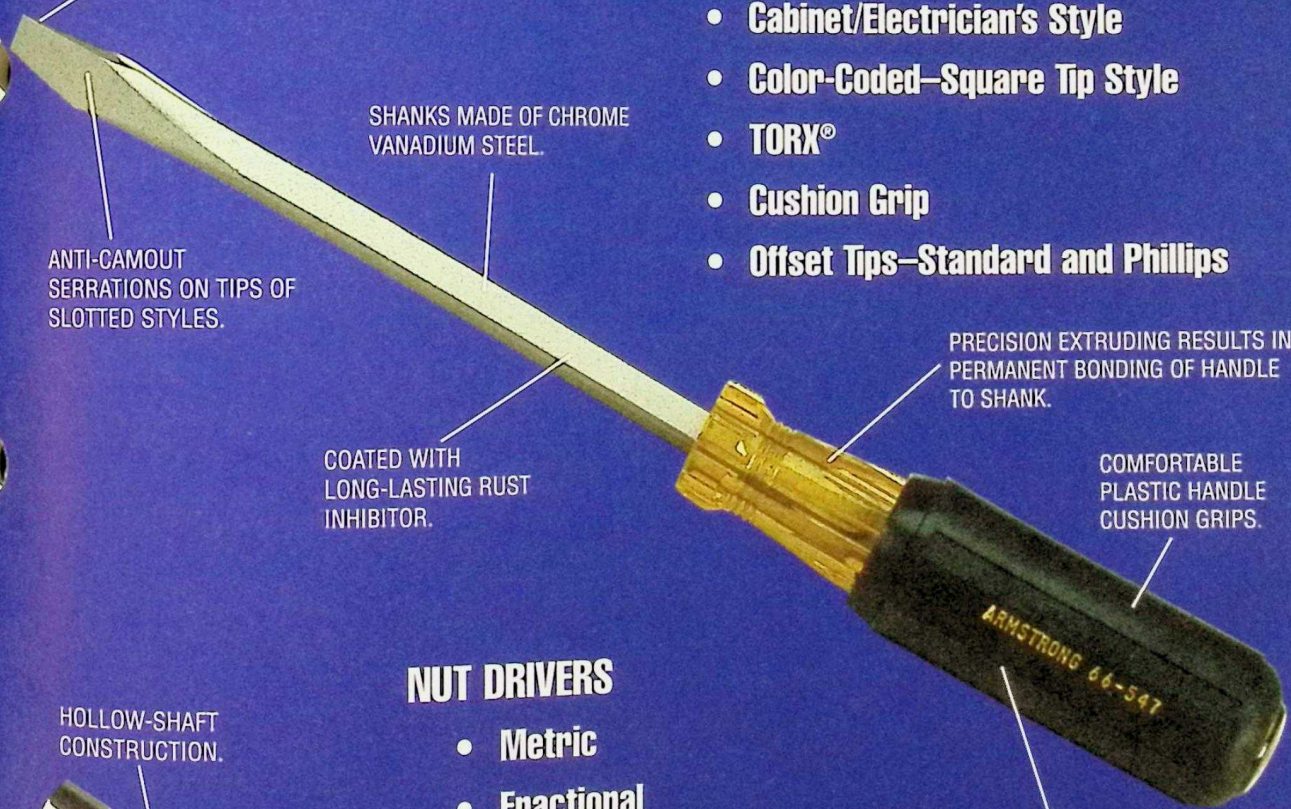
9 Screwdrivers and Nut Drivers

Screwdrivers and Nut Drivers

Armstrong offers a wide variety of professional screwdrivers and nut drivers. Available individually or in a selection of sets, these precision-made tools can handle just about any screw or nut turning application.

SCREWDRIVERS

- Round Shank–Standard and Phillips
- Square Shank–Standard
- Cabinet/Electrician's Style
- Color-Coded–Square Tip Style
- TORX®
- Cushion Grip
- Offset Tips–Standard and Phillips



NUT DRIVERS

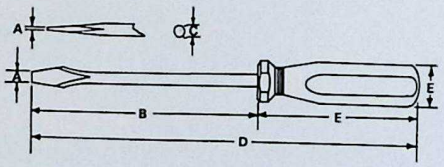
- Metric
- Fractional
- Hollow Shaft
- SAE Color Coded

SAFETY NOTICE
Never use screwdrivers as pry bars or for punching or chiseling. Be sure to match tip size to size of screw slot. Never use screwdrivers with chipped or rounded tips.

ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS

Round Shank, Clear Handle

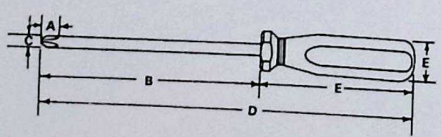
Product Number	A Tip Width x Thickness	Weight Lbs.	B Blade Length	C Blade Diameter	D Overall Length	E Handle Size Dia x Length	F Screw Size
66-101	1/4 x .040	.20	4.000	.250	8.250	1.062 x 4.250	10, 12
66-104	5/16 x .045	.30	6.000	.310	10.880	1.125 x 4.875	12, 14, 16
66-107	3/8 x .055	.49	8.000	.380	12.880	1.125 x 4.875	16, 18, 20
66-110	3/8 x .060	.55	10.000	.380	14.880	1.125 x 4.875	16, 18, 20
66-113	3/8 x .065	.63	12.000	.380	16.880	1.125 x 4.875	16, 18, 20



Phillips, Clear Handle

Product Number	A Tip Size	Weight Lbs.	B Blade Length	C Blade Diameter	D Overall Length	E Handle Size Dia x Length	F Screw Size
66-151*	2	.09	1.500	.500	3.187	1.062 x 1.875	2
66-154	0	.04	2.500	.125	4.687	0.562 x 2.187	0
66-157	1	.13	3.000	.187	6.625	0.937 x 3.625	1
66-159	1	.29	8.000	.187	11.625	0.937 x 3.625	1
66-160	2	.20	4.000	.250	8.250	1.062 x 4.250	2
66-162	2	.34	8.000	.250	12.250	1.062 x 4.250	2
66-163	3	.30	6.000	.312	10.875	1.125 x 4.875	3
66-166	4	.50	8.000	.375	12.875	1.125 x 4.875	4

*Includes Pocket Clip



CAUTION:

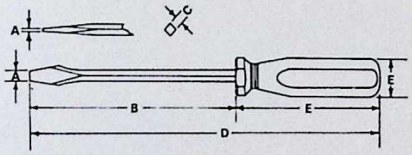
Never use screwdrivers as pry bars, or for punching or chiseling. Be sure to match tip size to size of screw slot. Never use screwdrivers with chipped or rounded tips. Never substitute a standard Phillips screwdriver when driving Pozidriv® screws.

Always wear eye protection when

Square Shank, Clear Handle

Product Number	A Tip Size	Weight Lbs.	B Blade Length	C Blade Diameter	D Overall Length	E Handle Size Dia x Length	F Screw Size
66-201*	1/4 x .040	.10	1.312	.250	3.187	1.062 x 1.875	10, 12
66-204	3/16 x .030	.14	4.000	.187	7.625	0.937 x 3.625	6, 7, 8, 9
66-207	1/4 x .045	.21	4.000	.250	8.250	1.062 x 4.250	10, 12
66-210	1/4 x .045	.24	6.000	.250	10.250	1.062 x 4.250	10, 12
66-213	5/16 x .050	.29	4.000	.312	8.875	1.125 x 4.875	12, 14, 16
66-216	5/16 x .050	.34	6.000	.312	10.875	1.125 x 4.875	12, 14, 16
66-219	5/16 x .050	.39	8.000	.312	12.875	1.125 x 4.875	12, 14, 16
66-222	3/8 x .055	.40	6.000	.375	10.875	1.125 x 4.875	16, 18, 20
66-225	3/8 x .055	.55	8.000	.375	12.875	1.125 x 4.875	16, 18, 20
66-228	3/8 x .055	.62	10.000	.375	14.875	1.125 x 4.875	16, 18, 20
66-231	3/8 x .060	.70	12.000	.375	16.875	1.125 x 4.875	16, 18, 20

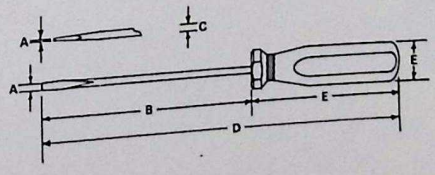
*Stubby, Round Shank

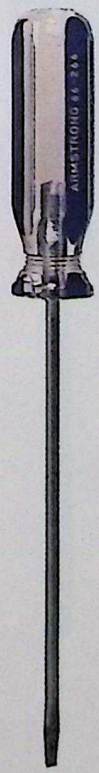


Cabinet (Electricians') Style, Clear Handle

Product Number	A Tip Width x Thickness	Weight Lbs.	B Blade Length	C Blade Diameter	D Overall Length	E Handle Size Dia x Length	F Screw Size
66-251*	1/8 x .025	.04	3.500	.125	5.687	.562 x 2.187	2, 3, 4, 5
66-252	1/8 x .025	.04	4.000	.125	6.875	.750 x 2.875	2, 3, 4, 5
66-254	1/8 x .025	.05	6.000	.125	8.875	.750 x 2.875	2, 3, 4, 5
66-257	1/8 x .025	.07	8.000	.125	10.875	.750 x 2.875	2, 3, 4, 5
66-260	3/16 x .035	.13	3.000	.187	6.625	.937 x 3.625	6, 7, 8, 9
66-263	3/16 x .035	.14	4.000	.187	7.625	.937 x 3.625	6, 7, 8, 9
66-264	3/16 x .035	.14	5.000	.187	8.625	.937 x 3.625	6, 7, 8, 9
66-266	3/16 x .035	.15	6.000	.187	9.625	.937 x 3.625	6, 7, 8, 9
66-269	3/16 x .035	.16	8.000	.187	11.625	.937 x 3.625	6, 7, 8, 9
66-272	3/16 x .035	.14	10.000	.187	13.625	.937 x 3.625	6, 7, 8, 9

*Includes pocket clip

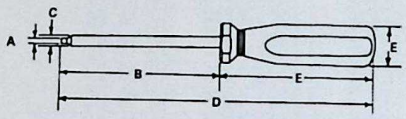


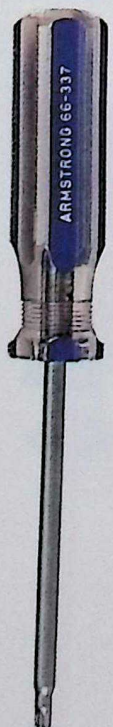


Square Tip Style, Clear Color-Coded Handle

Product Number	A Tip Size	Weight Lbs.	B Blade Length	C Blade Diameter	D Overall Length	E Handle Size Dia x Length	F Screw Size
66-301	1	.13	3.500	.250	6.875	.875 x 3.375	1
66-302	2	.13	3.500	.250	6.875	.875 x 3.375	2
66-303	3	.14	4.000	.250	7.625	.937 x 3.625	3

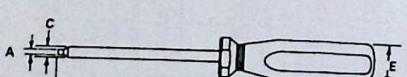
For recessed square head screws on campers, boats and truck cab roofs and side panels.





Torx® Style, Clear Color-Coded Handle

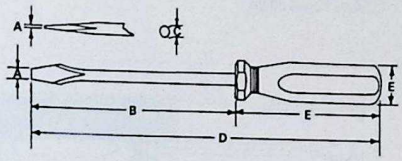
Product Number	A Tip Size	Weight Lbs.	B Blade Length	C Blade Diameter	D Overall Length	E Handle Size Dia x Length	Handle Color
66-325	T10	.13	3.000	.187	6.375	.875 x 3.375	Black
66-328	T15	.13	3.000	.187	6.375	.875 x 3.375	Red
66-331	T20	.13	3.000	.187	6.375	.875 x 3.375	Green
66-334	T25	.14	3.000	.187	6.375	.875 x 3.375	Orange
66-337	T27	.20	4.000	.250	7.625	.937 x 3.625	Blue
66-340	T30	.21	4.000	.250	7.625	.937 x 3.625	Brown

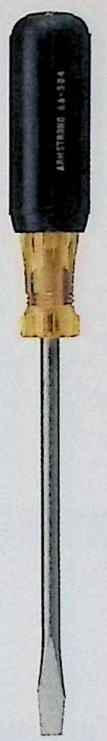


Always wear eye protection

Round Shank, Cushion Grip

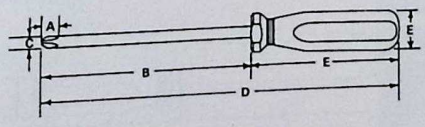
Product Number	A Tip Width x Thickness	Weight Lbs.	B Blade Length	C Blade Diameter	D Overall Length	E Handle Size Dia x Length	F Screw Size
66-501	1/4 x .040	.21	4	.250	8.250	1.250 x 4.250	10, 12
66-504	5/16 x .045	.36	6	.312	10.875	1.250 x 4.875	12, 14, 16
66-507	3/8 x .055	.52	8	.375	12.875	1.250 x 4.875	16, 18, 20

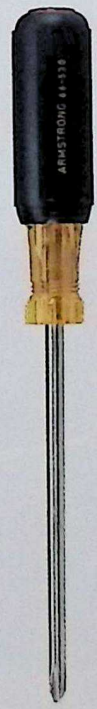




Phillips, Cushion Grip

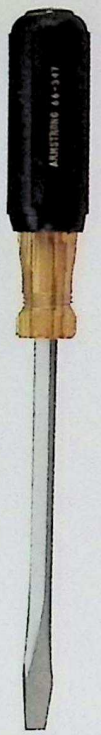
Product Number	A Tip Size	Weight Lbs.	B Blade Length	C Blade Diameter	D Overall Length	E Handle Size Dia x Length	F Screw Size
66-521	#2	.11	1.312	.250	3.062	1.250 x 1.750	2
66-524	#1	.13	3.000	.187	6.625	1.125 x 3.625	1
66-527	#2	.20	4.000	.250	8.250	1.125 x 4.250	2
66-530	#3	.36	6.000	.312	10.875	1.250 x 4.875	3





CAUTION:

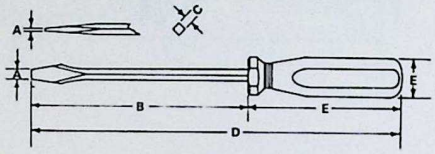
Never use screwdrivers as pry bars, or for punching or chiseling. Be sure to match tip size to size of screw slot. Never use screwdrivers with chipped or rounded tips. Never substitute a standard Phillips screwdriver when driving Pozidriv® screws.

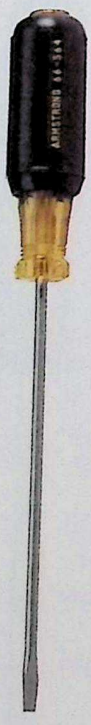


Square Shank, Cushion Grip

Product Number	A Tip Size	Weight Lbs.	B Blade Length	C Blade Thickness	D Overall Length	E Handle Size Dia x Length	F Screw Size	Stock Size, In
66-541*	1/4 x .040	.12	1.312	.250	3.062	1.250 X 1.750	10,12	1/4
66-544	1/4 x .040	.22	4.000	.250	8.250	1.250 x 4.250	10,12	1/4
66-547	5/16 x .050	.40	6.000	.312	10.875	1.250 x 4.875	12,14,16	5/16
66-550	3/8 x .055	.56	8.000	.375	12.875	1.250 x 4.875	16,18,20	3/8
66-553	3/8 x .055	.65	10.000	.375	14.875	1.250 x 4.875	16,18,20	3/8

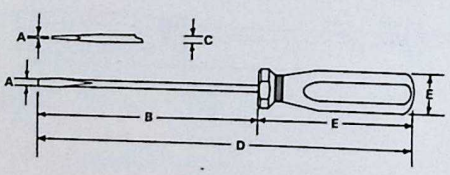
*Stubby, Round Shank





Cabinet (Electricians') Style, Cushion Grip

Product Number	A Tip Width x Thickness	Weight Lbs.	B Blade Length	C Blade Diameter	D Overall Length	E Handle Size Dia x Length	F Screw Size
66-561	3/16 x .035	.12	3.000	.187	6.625	1.125 x 3.625	6, 7, 8, 9
66-564	3/16 x .035	.15	6.000	.187	9.625	1.125 x 3.625	6, 7, 8, 9
66-567	3/16 x .035	.16	8.000	.187	11.625	1.125 x 3.625	6, 7, 8, 9
66-570	3/16 x .035	.18	10.000	.187	13.625	1.125 x 3.625	6, 7, 8, 9

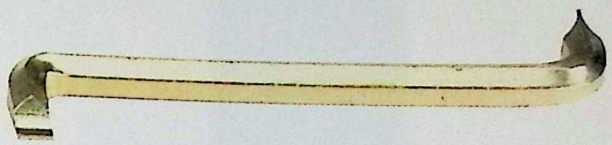


CAUTION:
Never use screwdrivers as pry bars, or for punching or chiseling. Be sure to match tip size to size of screw slot. Never use screwdrivers with chipped or rounded tips. Never substitute a standard Phillips screwdriver when driving Pozidriv® screws.

Always wear eye protection

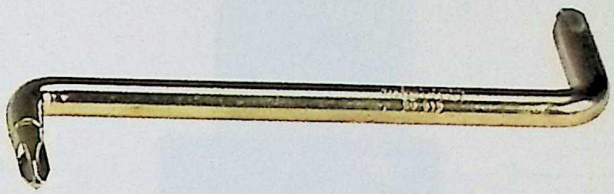
Offset, Standard Tip

Product Number	Tip Width, Inches	Shank Length, Inches	Weight, Pounds
66-601	5/32	3	.06
66-603	1/4	4	.08
66-605	5/16	5	.12
66-607	3/8	6	.20



Offset, Phillips Tip

Product Number	Phillips Numbers	Shank Length, Inches	Weight, Pounds
66-609	1 & 2	4-1/2	.10
66-613	3 & 4	6-1/2	.16



Square Shank Screwdriver Set 66-616

Contents: 5 Square Shank, Clear Handle Screwdrivers in Vinyl Roll 29-320.

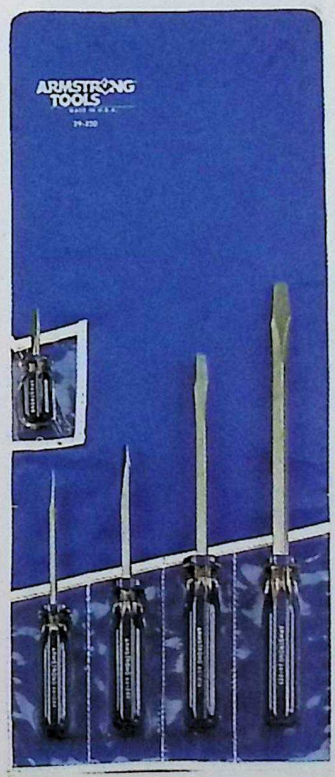
Approximate weight, 1.55 pounds.

Product Number	Shank Size, Inches
66-201	Stubby
66-204	3/16 x 4
66-207	1/4 x 4
66-216	5/16 x 6
66-225	3/8 x 8

Square Shank Screwdriver Set 66-617

Contents: Same Screwdrivers as 66-616. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 1.34 pounds.



Square Shank Screwdriver Set 66-624

Contents: 6 Square Shank, Clear Handle Screwdrivers in Vinyl Roll 29-336.

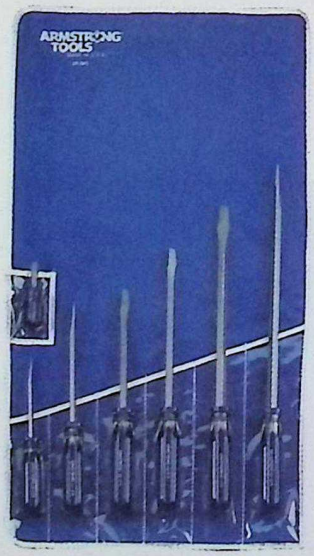
Approximate weight, 2.35 lbs.

Product Number	Shank Size, Inches	Product Number	Shank Size, Inches
66-201	Stubby	66-216	5/16 x 6
66-204	3/16 x 4	66-225	3/8 x 8
66-207	1/4 x 4	66-231	3/8 x 12

Square Shank Screwdriver Set 66-625

Same Screwdrivers as 66-624. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 2.04 lbs.



Square Shank Screwdriver Set 66-626

Contents: 7 Square Shank, Clear Handle Screwdrivers in Vinyl Roll 29-345.

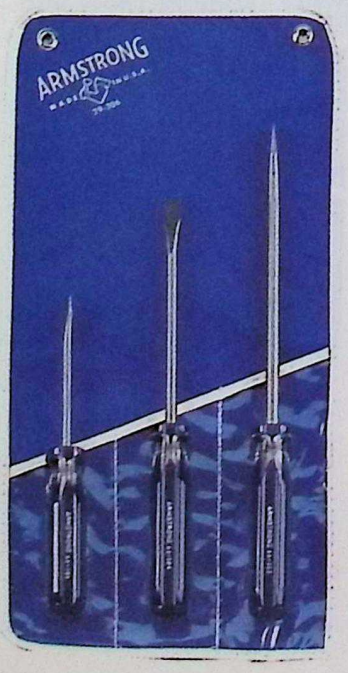
Approximate weight, 2.87 pounds

Product Number	Shank Size, Inches	Product Number	Shank Size, Inches
66-201	Stubby	66-219	5/16 x 8
66-204	3/16 x 4	66-228	3/8 x 10
66-210	1/4 x 6	66-231	3/8 x 12
66-216	5/16 x 6		

Square Shank Screwdriver Set 66-627

Same Screwdrivers as 66-626. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 2.53 pounds.



Round Shank Screwdriver Set 66-629

Contents: 3 Round Shank, Clear Handle Screwdrivers in Vinyl Roll 29-306.

Approximate weight, 1.16 pounds

Product Number	Shank Size, Inches	Product Number	Shank Size, Inches
66-101	1/4 x 4	66-107	3/8 x 8
66-104	5/16 x 6		

Round Shank Screwdriver Set 66-630

Same Screwdrivers as 66-629. Packaged in cardboard box without Vinyl Roll. Approximate weight, .99 pounds.

Always wear eye protecti...

Round Shank Screwdriver Set 66-631

Contents: 6 Clear Handle Screwdrivers, 5 Round Shank, 1 (Stubby) Square Shank in Vinyl Roll 29-336.

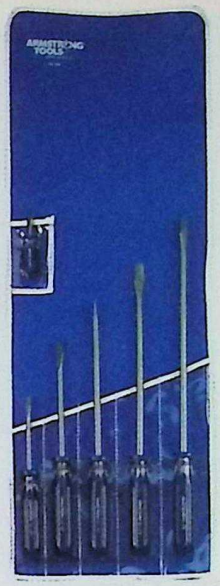
Approximate weight, 2.58 lbs.

Product Number	Shank Size, Inches	Product Number	Shank Size, Inches
66-101	1/4 x 4	66-110	3/8 x 10
66-104	5/16 x 6	66-113	3/8 x 12
66-107	3/8 x 8	66-201	Stubby

Round Shank Screwdriver Set 66-632

Contents: Same Screwdrivers as 66-631. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 2.27 lbs.



Phillips Screwdriver Set 66-639

Contents: 4 Phillips, Clear Handle Screwdrivers in Vinyl Roll 29-320.

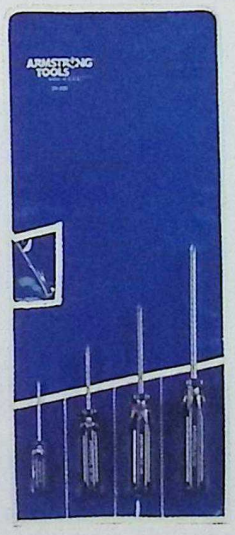
Approximate weight, .88 pounds.

Product Number	Shank Size, Inches	Product Number	Shank Size, Inches
66-154	1/8 x 3, #0	66-160	1/4 x 4, # 2
66-157	3/16 x 3, #1	66-163	5/16 x 6, #3

Phillips Screwdriver Set 66-640

Contents: Same Screwdrivers as 66-639. Packaged in cardboard box without Vinyl Roll.

Approximate weight, .67 pounds.



Phillips Screwdriver Set 66-641

Contents: 5 Phillips, Clear Handle Screwdrivers in Vinyl Roll 29-320.

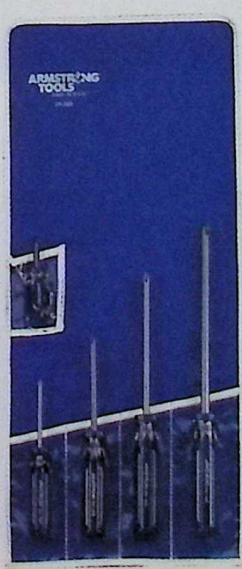
Approximate weight, 1.43 lbs.

Product Number	Shank Size, Inches	Product Number	Shank Size, Inches
66-151	Stubby	66-163	5/16 x 6, #3
66-157	3/16 x 3, #1	66-166	3/8 x 8, #4
66-160	1/4 x 4, # 2		

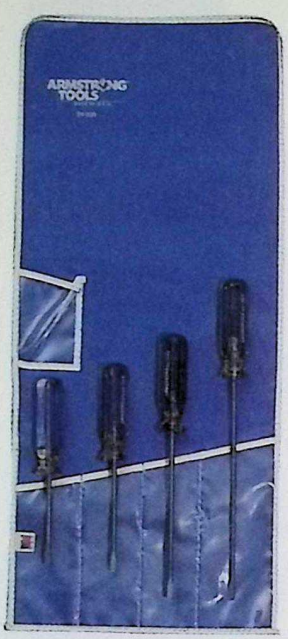
Phillips Screwdriver Set 66-642

Contents: Same Screwdrivers as 66-641. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 1.22 lbs.



NEW!



Cabinet Style Screwdriver Set 66-647

Contents: 4 Cabinet Style, Clear Handle Screwdrivers in Vinyl Roll 29-320.

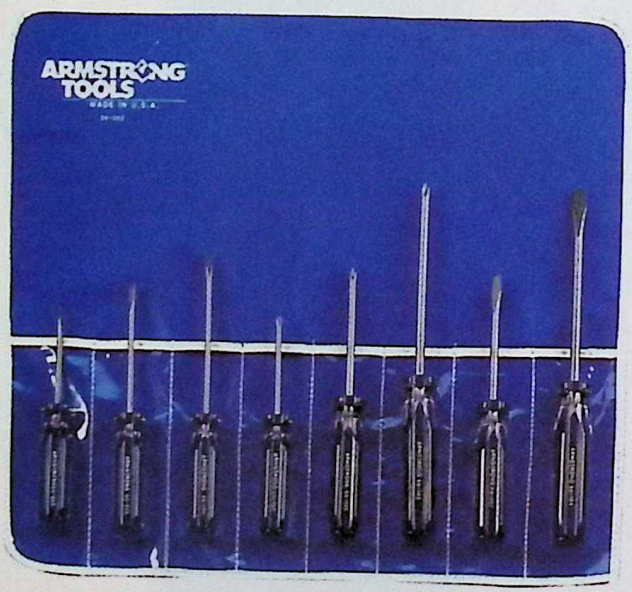
Approximate weight, .79 pounds.

Product Number	Shank Size, Inches	Product Number	Shank Size, Inches
66-260	3/16 x 3	66-266	3/16 x 6
66-263	3/16 x 4	66-269	3/16 x 8

Cabinet Style Screwdriver Set 66-648

Contents: Same Screwdrivers as 66-647. Packaged in cardboard box without Vinyl Roll.

Approximate weight, .58 lbs.



Mixed Pattern Screwdriver Set 66-655

Contents: 8 Clear Handle Screwdrivers; 2 Round Shank, 3 Phillips, 3 Cabinet Style.
In Vinyl Roll 29-352.

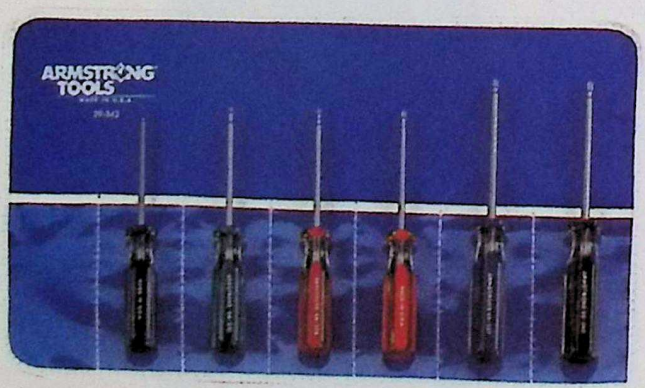
Approximate weight, 1.86 lbs.

Product Number	Shank Size, Inches	Product Number	Shank Size, Inches
66-101	1/4 x 4	66-260	3/16 x 3
66-104	5/16 x 6	66-263	3/16 x 4
66-157	3/16 x 3, #1	66-264	3/16 x 5
66-160	1/4 x 4, # 2		
66-163	5/16 x 6, #3		

Mixed Pattern Screwdriver Set 66-656

Contents: Same Screwdrivers as 66-655. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 1.55 lbs.



Torx Screwdriver Set 66-659

Contents: 6 Torx Style, Clear Handle Screwdrivers in Vinyl Roll 29-343.

Approximate weight, 1.16 pounds.

Product Number	Shank Size, Inches
66-325	3/16 x 3, T10
66-328	3/16 x 3, T15
66-331	3/16 x 3, T20
66-334	3/16 x 3, T25
66-337	1/4 x 4, T27
66-340	1/4 x 4, T30

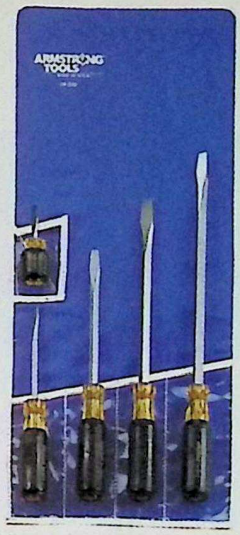
Always wear eye protect

Square Shank Screwdriver Set 66-661

Contents: 5 Square Shank Cushion Grip Screwdrivers in Vinyl Roll 29-320.

Approximate weight, 2.16 lbs.

Product Number	Shank Size, Inches	Product Number	Shank Size, Inches
66-541	Stubby	66-550	3/8 x 8
66-544	1/4 x 4	66-553	3/8 x 10
66-547	5/16 x 6		



Square Shank Screwdriver Set 66-662

Contents: Same Screwdrivers as 66-661. Packaged in cardboard box without Vinyl Roll.

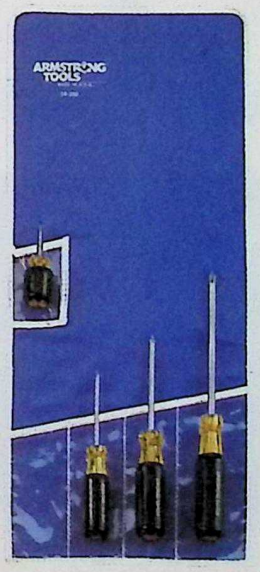
Approximate weight, 1.95 lbs.

Phillips Screwdriver Set 66-671

Contents: 4 Phillips, Cushion Grip Screwdrivers in Vinyl Roll 29-320.

Approximate weight, 1.01 pounds.

Product Number	Shank Size, Inches	Product Number	Shank Size, Inches
66-521	#2 Stubby	66-527	1/4 x 4, # 2
66-524	3/16 x 3, #1	66-530	5/16 x 6, #3



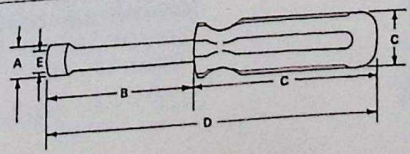
Phillips Screwdriver Set 66-672

Contents: Same Screwdrivers as 66-671. Packaged in cardboard box without Vinyl Roll.

Approximate weight, .80 pounds.

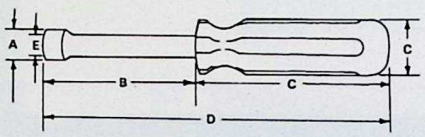
Hollow Shaft Nut Drivers, 6-Point Opening

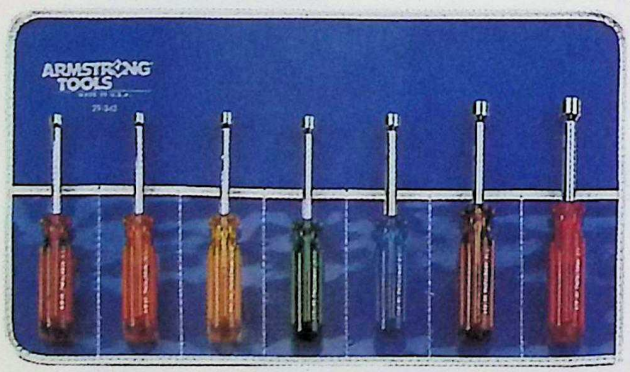
Product Number	Opening Inches	Weight Lbs.	A Drive End	B Shaft Length	C Handle Size Dia x Length	D Overall Length	E Bolt Clearance	Handle Color
66-806	3/16	.12	.328	3.000	1.000 x 3.600	6.620	0.140	Black
66-807	7/32	.12	.373	3.000	1.000 x 3.600	6.620	0.140	Brown
66-808	1/4	.13	.421	3.000	1.000 x 3.600	6.620	0.196	Red
66-809	9/32	.13	.451	3.000	1.000 x 3.600	6.620	0.203	Orange
66-810	5/16	.14	.490	3.000	1.000 x 3.600	6.620	0.196	Amber
66-811	11/32	.14	.531	3.000	1.000 x 3.600	6.620	0.203	Green
66-812	3/8	.16	.570	3.000	1.000 x 3.600	6.620	0.272	Blue
66-814	7/16	.19	.648	3.000	1.060 x 4.000	7.000	0.272	Brown
66-816	1/2	.21	.718	3.000	1.060 x 4.000	7.000	0.333	Red
66-818	9/16	.24	.806	4.000	1.190 x 4.500	8.500	0.397	Red
66-820	5/8	.27	.890	4.000	1.190 x 4.500	8.500	0.453	Red



Hollow Shaft Nut Drivers 6-Point Opening — METRIC

Product Number	Opening mm	Weight Lbs.	A Drive End	B Shaft Length	C Handle Size Dia x Length	D Overall Length	E Bolt Clearance
66-829	4	.10	8.0	76.0	25 x 91	167.0	4.0
66-831	5	.12	10.0	76.0	25 x 91	167.0	4.0
66-832	5.5	.12	10.0	76.0	25 x 91	167.0	4.0
66-833	6	.13	11.0	76.0	25 x 91	167.0	5.0
66-834	7	.13	12.0	76.0	25 x 91	167.0	5.0
66-835	8	.14	13.0	76.0	25 x 91	167.0	5.0
66-836	9	.14	14.0	76.0	25 x 91	167.0	5.0
66-837	10	.15	15.0	76.0	26 x 101	177.0	7.0
66-838	11	.18	17.0	76.0	26 x 101	177.0	7.0
66-839	12	.20	17.0	76.0	26 x 101	177.0	7.0
66-840	13	.27	18.0	76.0	26 x 101	177.0	8.0





Nut Driver Set 66-843

Contents: 7 Nut Drivers in Vinyl Roll 29-343.

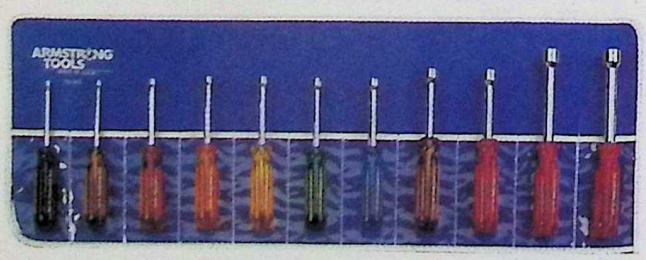
Approximate weight, 1.45 pounds.

Product Number	Opening, Inches	Product Number	Opening, Inches
66-808	1/4"	66-812	3/8"
66-809	9/32"	66-814	7/16"
66-810	5/16"	66-816	1/2"
66-811	11/32"		

Nut Driver Set 66-844

Contents: Same Nut Drivers as 66-843. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 1.10 pounds.



Nut Driver Set 66-845

Contents: 11 Nut Drivers in Vinyl Roll 29-363.

Approximate weight, 2.31 pounds.

Product Number	Opening, Inches	Product Number	Opening, Inches
66-806	3/16"	66-812	3/8"
66-807	7/32"	66-814	7/16"
66-808	1/4"	66-816	1/2"
66-809	9/32"	66-818	9/16"
66-810	5/16"	66-820	5/8"
66-811	11/32"		

Nut Driver Set 66-846

Contents: Same Nut Drivers as 66-845. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 1.85 pounds.

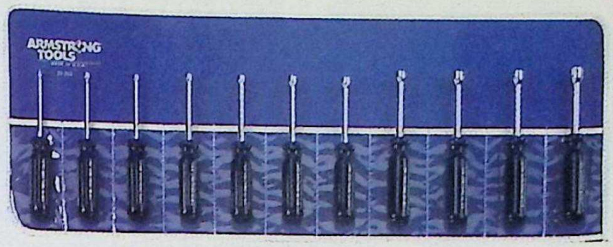
Always wear eye protection when near tools in use

Nut Driver Set 66-848 — METRIC

Contents: 11 Nut Drivers in Vinyl Roll 29-363.

Approximate weight, 1.98 pounds.

Product Number	Opening, mm	Product Number	Opening, mm
66-829	4mm	66-836	9mm
66-831	5mm	66-837	10mm
66-832	5.5mm	66-838	11mm
66-833	6mm	66-839	12mm
66-834	mm	66-840	13mm
66-835	8mm		



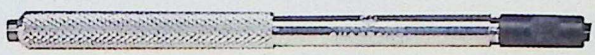
Nut Driver Set 66-849 — METRIC

Contents: Same Nut Drivers as 66-848. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 1.68 pounds.

Screw and Nut Starters

Choose from either slotted or Phillips head screw starters. Blade and bit grip screw head with 15 pound pull. They release automatically and reset as screw is tightened. Magnet on handle makes this tool a handy retriever when screws fall into inaccessible places. Can be used on wide range of screw sizes.

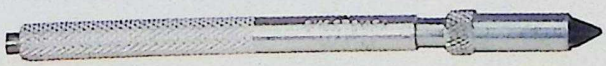


Screw Starters, Slotted Screws

Product Number	Length, Inches	Weight, Pounds
66-921	2-1/2	.02
66-924	5	.04
66-927	9	.06

Screw Starters, Phillips Screws

Product Number	Length, Inches	Weight, Pounds
66-933	5	.05
66-936	9	.08



Nut Starter, Hex Nuts

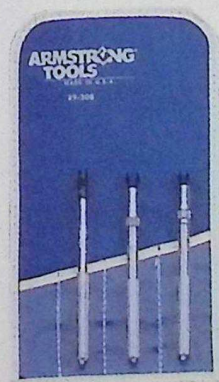
Product Number	Length, Inches	Weight, Pounds
66-943	5	.05

Screw & Nut Starter Set 66-962

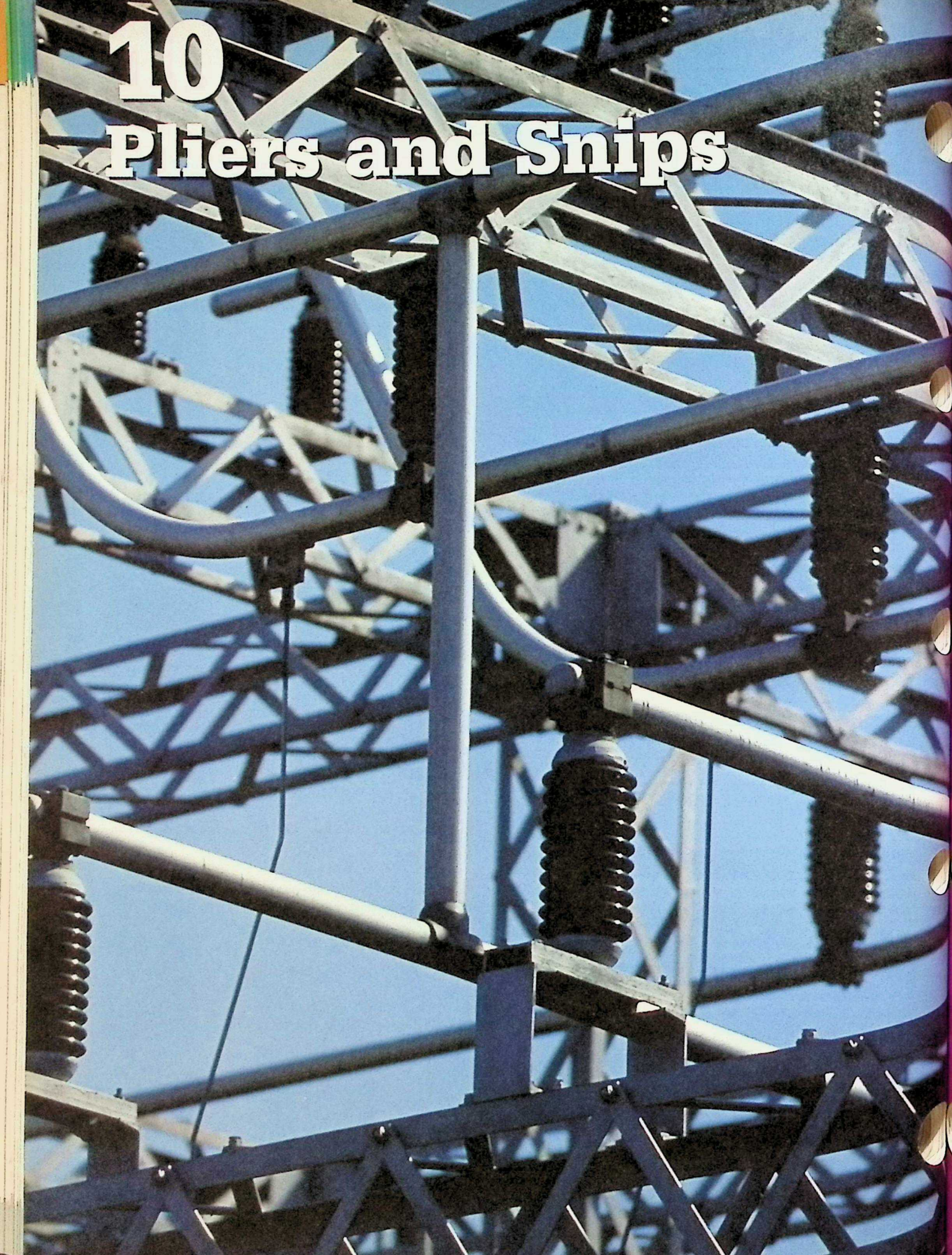
Contents: 3 Starters in Vinyl Roll 29-308.

Approximate weight, .21 pounds.

Product Number	Starter Type
66-924	5" for Slotted Screws
66-933	5" for Phillips Screws
66-943	5" for Nuts



Specification Guidelines, see Appendix A.



10 Pliers and Snips

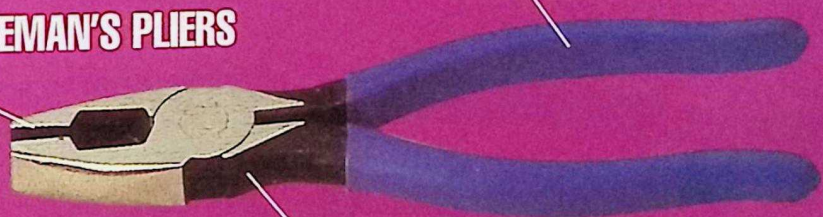
Pliers and Snips

All Armstrong pliers and snips are manufactured using high quality alloy steel and are precision-machined to exacting specifications. We offer these strong and durable tools in a broad range of standard and specialty styles, made especially for the professional.

- Solid Joint Pliers
- Slip Joint Pliers
- Electrician's Pliers
- Specialty Pliers
- Retaining Ring Pliers
- Wire Twister Pliers
- Aviation Snips
- Cutting Snips

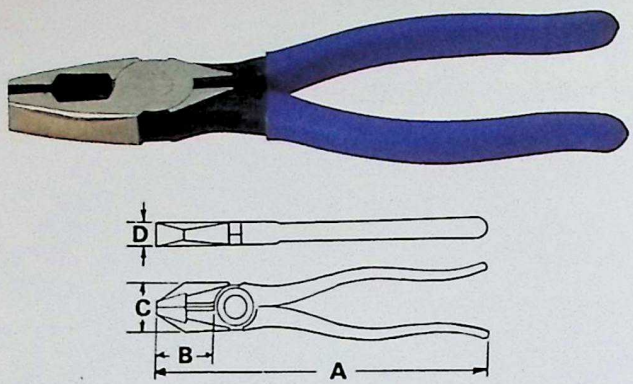
TONGUE & GROOVE PLIERS

LINEMAN'S PLIERS



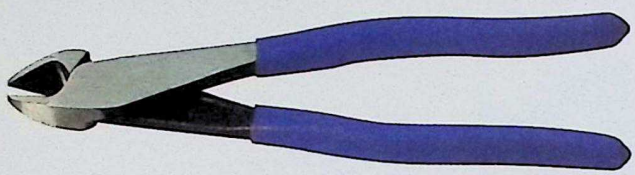
AVIATION SNIPS

ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS



Lineman's Pliers, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-063	6.500	.49	1.250	0.875	0.500
67-065	7.500	.68	1.375	1.000	0.562
67-067	8.500	1.01	1.500	1.062	0.625
67-069	9.500	1.15	1.593	1.562	0.625

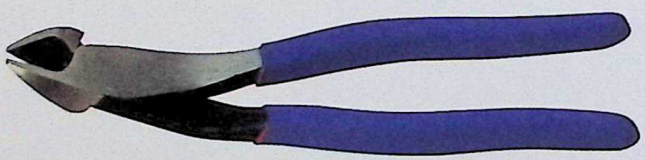


Heavy Duty Diagonal Cutting Pliers, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-109	7.125	.43	0.812	1.187	0.500
67-113	8.000	.56	0.812	1.125	0.500

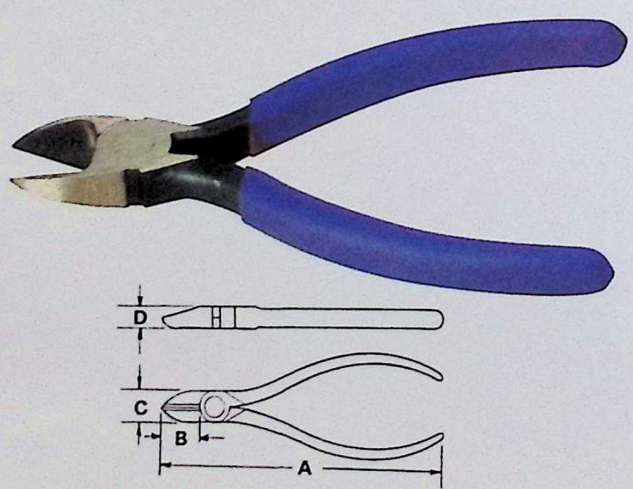
Heavy Duty Diagonal Cutting Pliers, Plain Handles

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-111	8.000	.53	0.812	1.125	0.500



Heavy Duty Diagonal Cutting Pliers, Angled Head with Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-123	8.000	.57	0.812	1.125	0.500



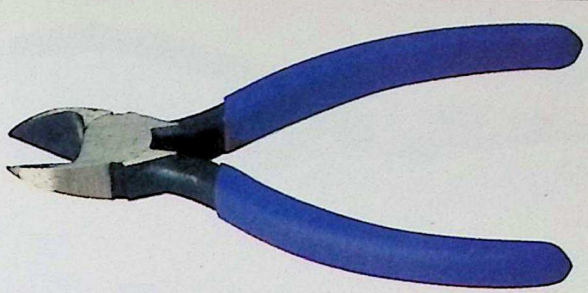
Diagonal Cutting Pliers, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-155	4.468	.13	0.625	0.500	0.312
67-159	5.062	.24	0.812	0.625	0.375
67-161	6.031	.33	0.812	0.687	0.437
67-163	7.500	.58	0.062	0.875	0.500

Always wear eye protection when near tools in use

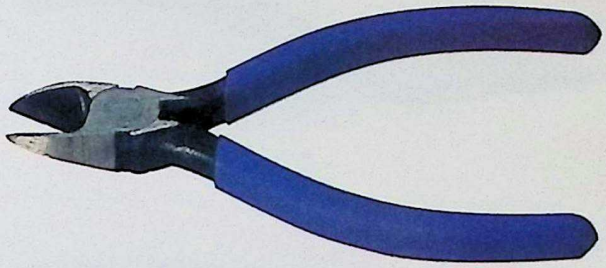
Diagonal Cutting Pliers, Cushion Grips with Spring

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-173	5.187	.25	0.812	0.625	0.375
67-175	6.031	.35	0.812	0.687	0.437



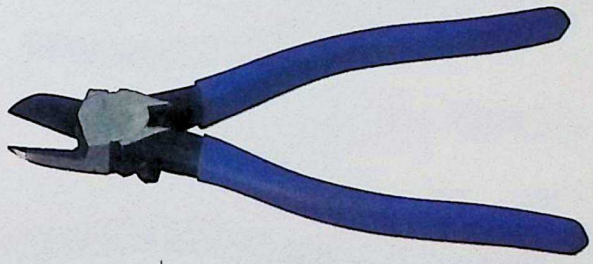
Heavy Duty Diagonal Cutting Pliers, Cushion Grips with Spring

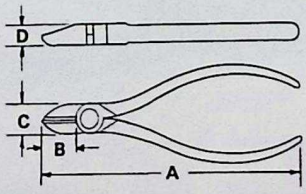
Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-183	4.468	.13	0.125	0.500	0.312



Heavy Duty Diagonal Cutting Pliers, Plastic Cutting, Cushion Grips with Spring

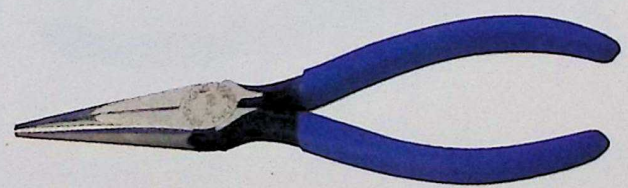
Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-195	6.031	.39	0.812	0.687	0.437
67-197	7.500	.63	0.062	0.875	0.500

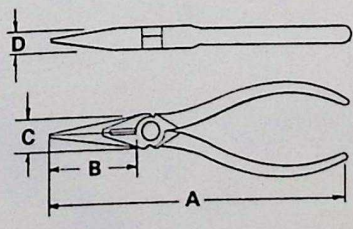




Chain Nose Pliers without Wire Cutter, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-253	4.750	.11	1.000	0.375	0.250
67-255	5.250	.23	1.125	0.500	0.312
67-257	6.375	.32	2.000	0.687	0.375
67-259	7.500	.37	2.500	0.750	0.375



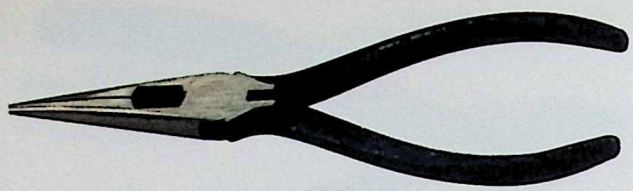


CAUTION:

Plastic "cushion" grips are intended for comfort and do not protect from electric shock. Use only those pliers with insulated handles when working near "hot" wires.

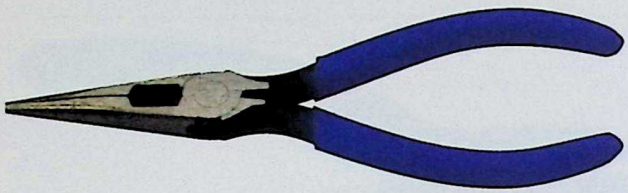
Do not attempt to cut hardened wire. Always cut at right angles; do not "rock" tool from side to side.

Wire and other fabricated metal products may snap or "spring" when being cut.



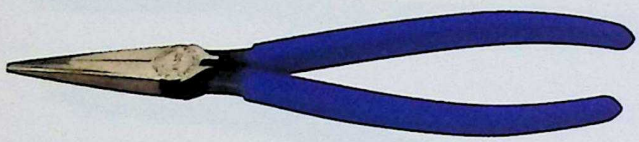
Chain Nose Pliers with Wire Cutter, Plain Handles

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-295	6.375	.29	2.000	0.687	0.375



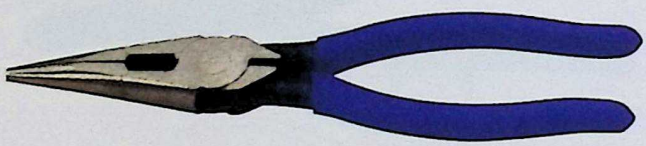
Chain Nose Pliers with Wire Cutter, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-303	4.875	.18	1.125	0.500	0.250
67-305	6.375	.31	2.000	0.687	0.375
67-307	7.500	.39	2.500	0.750	0.375



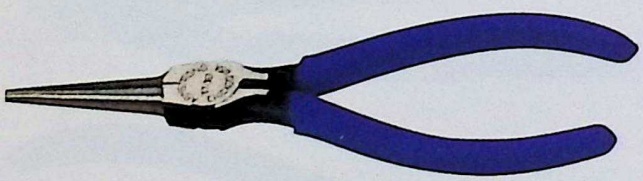
Long Reach Needle Nose Pliers, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-323	7.750	.35	1.187	0.562	0.437



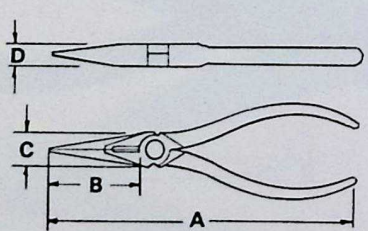
Long Reach Needle Nose Pliers, Cushion Grips with Wire Stripping Notch

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-331	7.750	.83	1.187	0.562	0.437



Long Slim Needle Nose Pliers, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-357	5.406	.25	1.750	0.500	0.312
67-367	6.500	.29	2.375	0.687	0.343



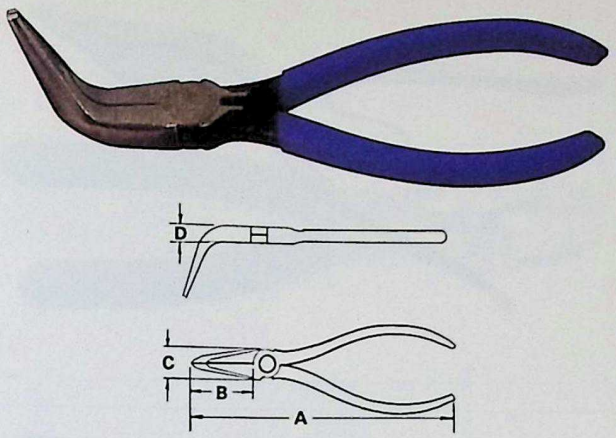
Long Slim Needle Nose Pliers, Cushion Grips with Spring

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-369	6.500	.30	2.375	0.687	0.343

Always wear eye protection when

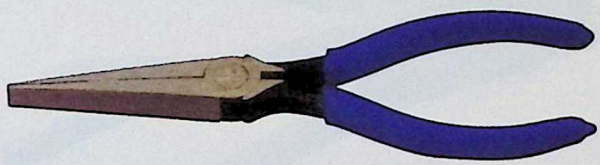
Bent Needle Nose Pliers, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-401	6.250	.26	1.500	0.687	0.375



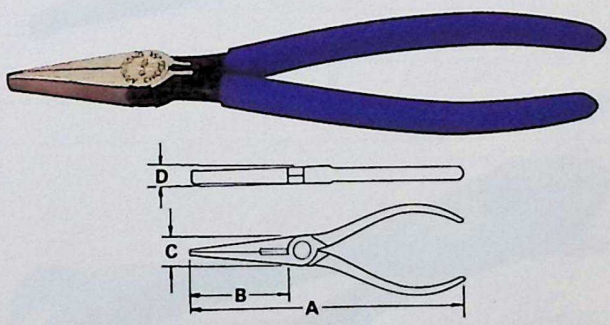
Flat Nose Pliers without Wire Cutter, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-441	6.500	.31	2.250	0.687	0.375



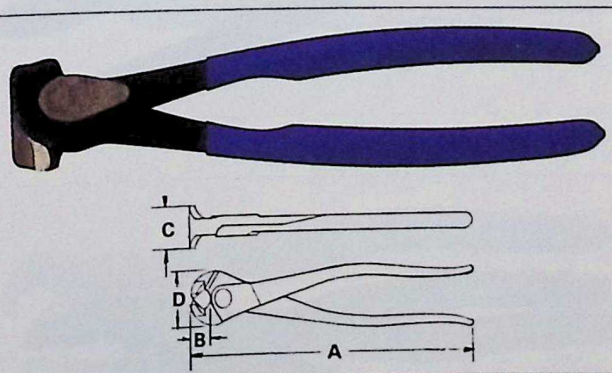
Long Short-Nose Duckbill Pliers, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-503	8.000	.43	1.375	0.562	0.437



End Cutting Nippers, Cushion Grips

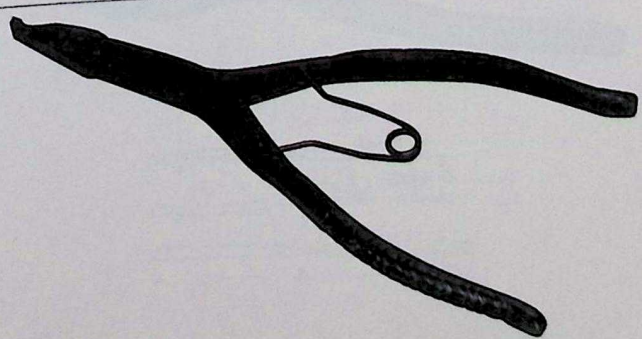
Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-535	7.250	.73	0.750	0.687	1.187

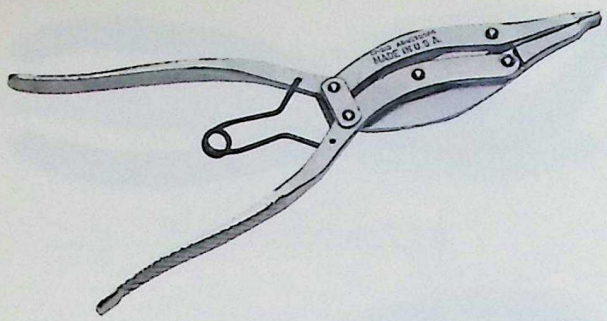


Lock Ring Pliers, Standard Design

Right angle jaw tips are knurled on outside surface to hold rings securely. Tension spring closes jaws. 1-1/2" maximum jaw opening.

Product Number	Overall Length	Weight Lbs.
67-555	9	.53

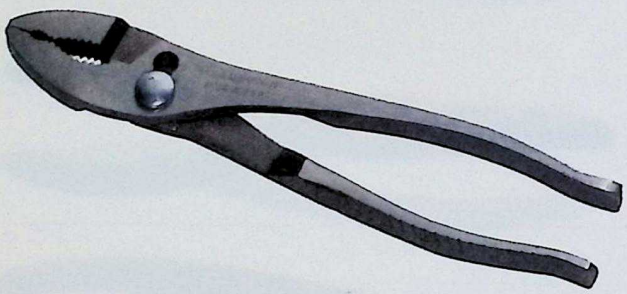




Lock Ring Pliers, Parallel Jaws, Compound Leverage

Right angle jaw tips are knurled on outside surface to hold rings securely. Tension spring closes jaws. 1-1/2" maximum jaw opening.

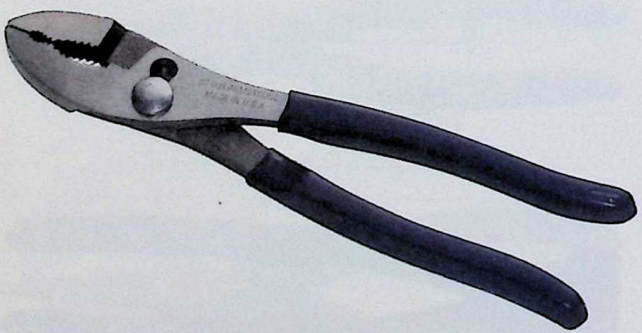
Product Number	Overall Length	Weight Lbs.
67-565	9	.59



Combination Slip Joint Pliers, Plain Handles

Two position slip-joint adjustment with fine teeth at end of jaws followed by large, deep cut teeth to provide maximum contact for gripping varying surfaces. Shear-type wire cutter.

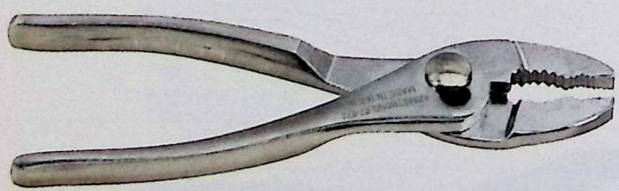
Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-657	6.500	.41	1.812	1.312	0.390
67-659	8.000	.51	2.125	1.406	0.390
67-661	10.000	.85	2.125	1.406	0.484

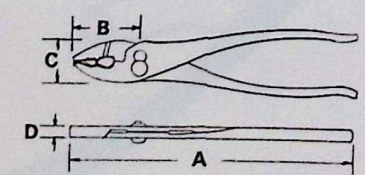


Combination Slip Joint Pliers, Cushion Grips

Two position slip-joint adjustment with fine teeth at end of jaws followed by large, deep cut teeth to provide maximum contact for gripping varying surfaces. Shear-type wire cutter.

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-667	6.500	.42	1.812	1.312	0.390
67-669	8.000	.53	2.125	1.406	0.390
67-671	10.000	.87	2.125	1.406	0.484





Thin Nose Combination Slip Joint Pliers, Plain Handle

Thin nose allows access into restricted areas. Two position slipjoint adjustment, with fine teeth at end of jaws, followed by larger, deep cut teeth to provide maximum contract for gripping varying surfaces. Shear-type wire cutter. Natural Finish.

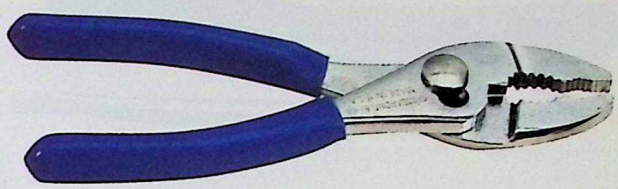
Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-677	6.500	.38	1.812	1.312	0.215

Always wear eye protection when

Thin Nose Combination Slip Joint Pliers, Cushion Grips

Thin nose allows access into restricted areas. Two position slipjoint adjustment, with fine teeth at end of jaws, followed by larger, deep cut teeth to provide maximum contract for gripping varying surfaces. Shear-type wire cutter. Natural Finish.

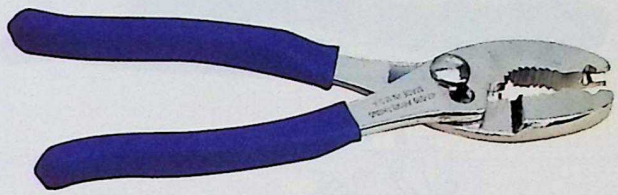
Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-687	6.500	.40	1.812	1.312	0.215

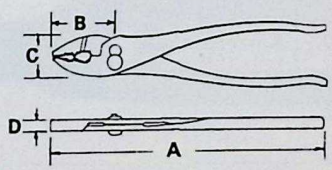


Hose Clamp Pliers, Cushion Grips

Natural Finish.

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-699	8.000	.53	2.062	1.406	0.390

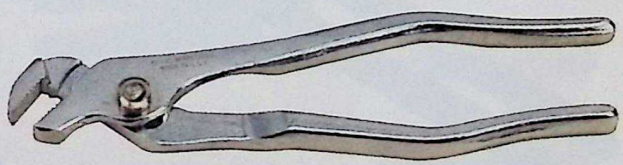




Tongue & Groove Ignition Pliers, Plain Handles

Ideal for delicate wiring jobs in ignitions, switchboards and electric terminals. Has three jaw positions. Natural Finish.

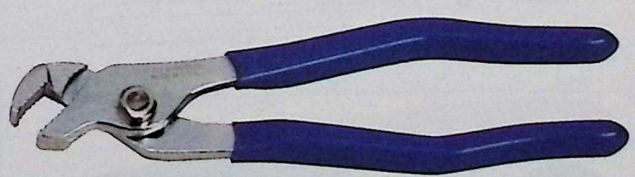
Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-711	5.000	.10	1.000	0.750	0.187

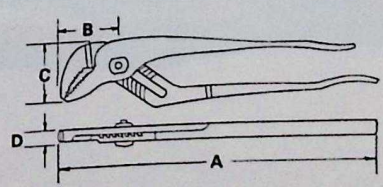


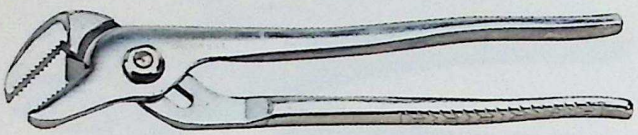
Tongue & Groove Ignition Pliers, Cushion Grips

Ideal for delicate wiring jobs in ignitions, switchboards and electric terminals. Has three jaw positions. Natural Finish.

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-717	5.000	.13	1.000	0.750	0.187



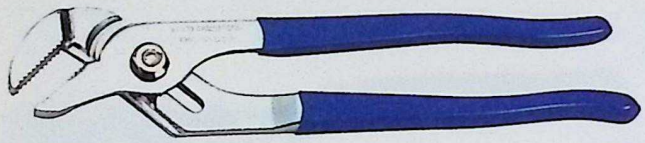


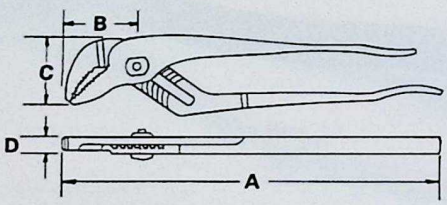


Tongue & Groove Pliers, Plain Handles

Jaws held parallel in most important positions, taking strain off bolt. Reinforcing rib adds strength. Wide range of jaw positions. Undercut teeth are deeply milled for good gripping power.

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-767	7.000	.46	1.625	1.250	0.375
67-769	10.000	.86	2.000	1.594	0.328
67-771	12.750	1.39	2.750	2.500	0.517

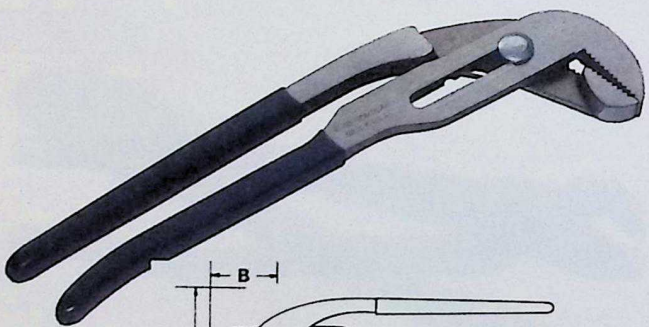


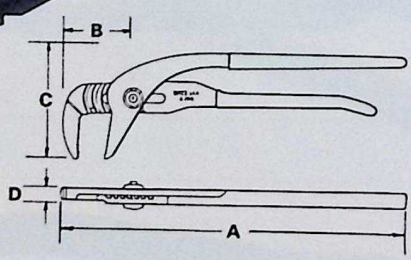


Tongue & Groove Pliers, Cushion Grips

Jaws held parallel in most important positions, taking strain off bolt. Reinforcing rib adds strength. Wide range of jaw positions. Undercut teeth are deeply milled for good gripping power.

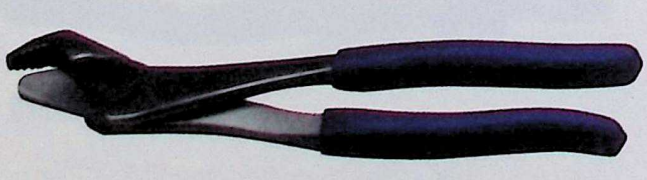
Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-777	7.000	.48	1.625	1.250	0.375
67-779	10.000	.91	2.000	1.594	0.328
67-781	12.750	1.49	2.750	2.500	0.517
67-783	16.000	2.61	3.156	2.312	0.594





Tongue & Groove "Pipe Wrench" Pliers, Cushion Grips

Product Number	A Overall Length	Weight Lbs.	B Jaw Length	C Jaw Width	D Jaw Thickness
67-789	10.000	.92	1.750	1.312	0.422
67-791	12.750	1.61	2.344	1.703	0.516



Battery Pliers

Jaws forged at 30° angle to grips, making nuts on battery terminal clamps easily accessible. Two jaw positions.

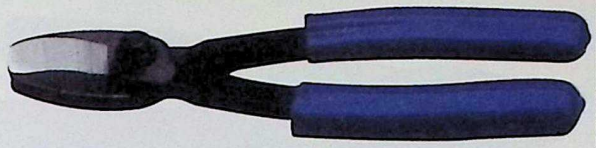
Product Number	Overall Length	Weight Lbs.
67-831	7-1/2	.42

Always wear eye protection when

Cable Cutters, Cushion Grips

For use with copper or aluminum cable up to 3/0 gauge. Jamb nut on joint helps maintain even pressure on inside surface of blades. Ground blades cut easily and cleanly.

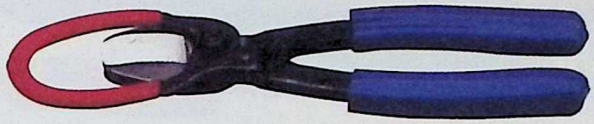
Product Number	Overall Length	Weight Lbs.
67-850	7-1/2	.58



Cable Cutters, Cushion Grips with Cable Guide

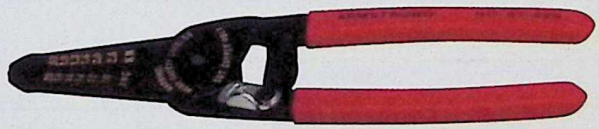
For use with copper or aluminum cable up to 3/0 gauge. Jamb nut on joint helps maintain even pressure on inside surface of blades. Ground blades cut easily and cleanly.

Product Number	Overall Length	Weight Lbs.
67-855	7-1/2	.66



Wire Strippers, Cushion Grips with Spring

Product Number	Length, Inches	Strip Wire Sizes, No.	Weight, Pounds
67-889	6-1/8	10, 12, 14, 16, 18, 20	.37

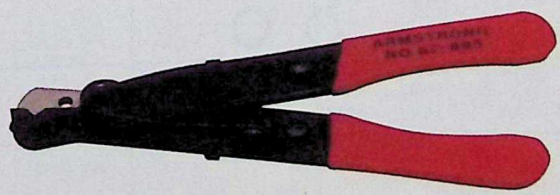


Wire Strippers, Cushion Grips with Spring

Product Number	Length, Inches	Strip Wire Sizes, No.	Weight, Pounds
67-891	6-1/8	22, 24, 26, 28, 30	.38

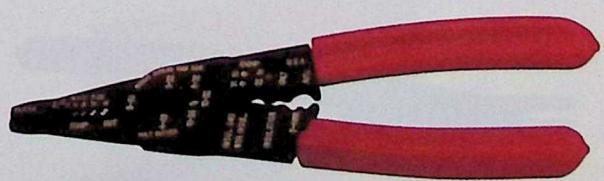
Wire Strippers, Cushion Grips with Spring

Product Number	Length, Inches	Strip Wire Sizes, No.	Weight, Pounds
67-895	5-1/4	10, 12, 14, 16, 18, 20	.21

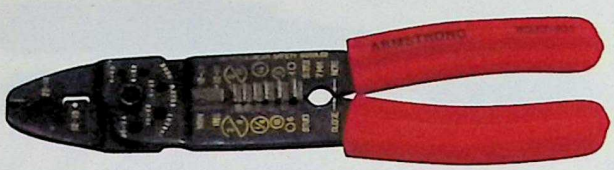


Electrician's Stripper/Cutter/Crimper Pliers, Cushion Grips

Product Number	Length, Inches	Strips Wire Sizes, No.	Crimps Wire Sizes, No.	Cuts Bolt Sizes	Weight Lbs.
67-901	8-1/4	10, 12, 14, 16, 18, 20, 22	Auto 7 & 8 mm, 22-18, 16-10	4-40, 5-40, 6-32, 8-32,10-32, 10-24	.44

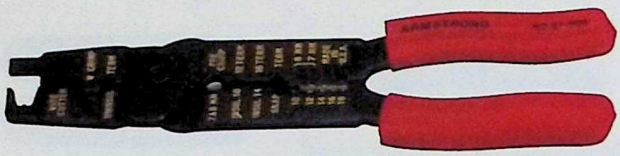


...tion Guidelines, see Appendix A.



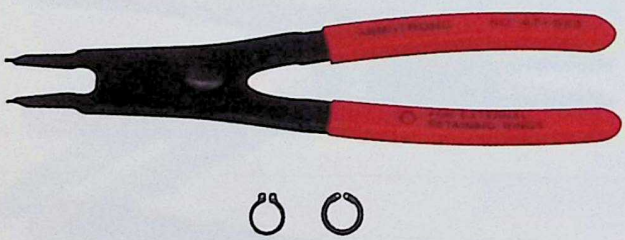
Electrician's Stripper/Cutter/Crimper Pliers, Cushion Grips

Product Number	Length, Inches	Strips Wire Sizes, No.	Crimps Wire Sizes, No.	Cuts Bolt Sizes	Weight Lbs.
67-905	8-5/8	10, 12, 14,16, 18, 20, 22	Auto 7 & 8 mm, 22-14, 12-10	4-40, 6-32, 8-32, 10-32, 10-24	.48



Electrician's Stripper/Cutter/Crimper Pliers, Cushion Grips

Product Number	Length, Inches	Strips Wire Sizes, No.	Crimps Wire Sizes, No.	Cuts Bolt Sizes	Weight Lbs.
67-908	9-1/2	10, 12, 14, 16, 18	Auto 7 & 8 mm, 18, 16, 14, 12, 10	none	.62



Retaining Ring Pliers

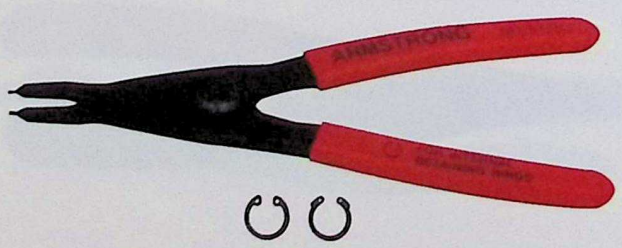
Armstrong Retaining Ring Pliers install and remove external rings on shafts up to 3-1/2" diameter and internal rings in bores from 1/4" to 3" diameter. Tips are induction hardened and shaped to grip better, reduce danger of flying rings and prevent ring damage. Permanent tips cannot be lost or misplaced. All pliers (except No. 67-917) have blue cushion grips.

Note: Always select the largest diameter tip that will fit the retaining ring. To obtain correct pliers or retaining ring number, measure diameter of shaft (external) or bore (internal) where ring is to be installed or removed, and refer to table below. Retaining ring dash numbers are expressed in hundredths of an inch. Example: 5101-75 identifies Truarc's external ring series 5101 for a shaft approximately 0.750" (3/4") O.D.

Fixed Tip Retaining Ring Pliers, External

For use with external retaining rings only.

Product Number	Description
67-917	.025 Tip, External, Straight
67-923	.038 Tip, External, Straight
67-927	.038 Tip, External, 90°
67-929	.070 Tip, External, Straight
67-935	.115 Tip, External, Straight



Fixed Tip Retaining Ring Pliers, Internal

For use with internal retaining rings only.

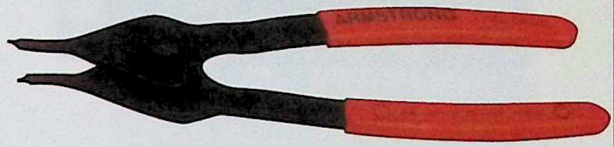
Product Number	Description
67-965	.025 Tip, Internal, Straight
67-971	.038 Tip, Internal, Straight
67-973	.038 Tip, Internal, 45°
67-977	.070 Tip, Internal, Straight
67-983	.090 Tip, Internal, Straight

Always wear eye protection when

Fixed Tip Retaining Ring Pliers, Internal/External Convertible

For use with either external or internal retaining rings. To convert from internal to external application, remove pivot screw and reinstall into adjacent tapped hole, finger tight.

Product Number	Description
68-025	.038 Tip, Internal/External, Straight
68-026	.038 Tip, Internal/External, 45°
68-027	.038 Tip, Internal/External, 90°
68-028	.047 Tip, Internal/External, Straight
68-029	.047 Tip, Internal/External, 45°
68-030	.047 Tip, Internal/External, 90°
68-031	.070 Tip, Internal/External, Straight
68-032	.070 Tip, Internal/External, 45°
68-033	.070 Tip, Internal/External, 90°
68-034	.090 Tip, Internal/External, Straight
68-035	.090 Tip, Internal/External, 45°
68-036	.090 Tip, Internal/External, 90°



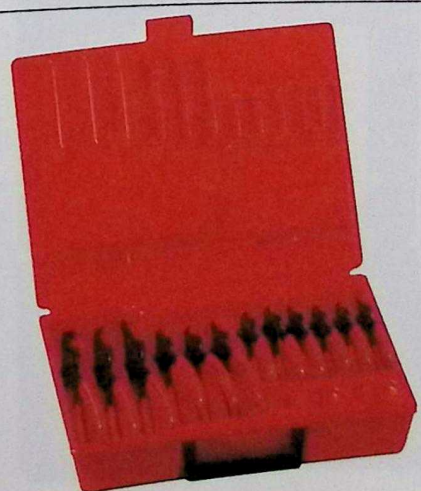
Retaining Ring Manufacturers Cross Reference

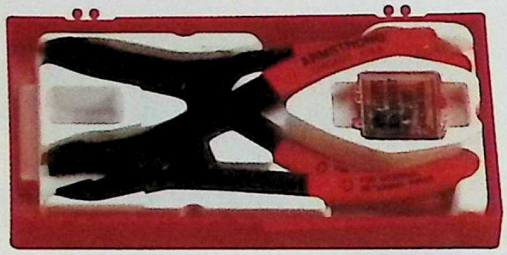
Tip Dia., In	Tip Angle	Product			EXTERNAL For Retaining Rings by following manutacturers					INTERNAL For Retaining Rings by following manutacturers				
		External	Internal	Int./Ext. Convertible	Shaft Dia., Inches	Anderton United	Industro	Truarc	Dash Number	Bore Dia., Inches	Anderton United	Industro	Truarc	Dash Number
.025	0°	67-917	67-965	—	3/16 to 15/64	1400 1401 1402	3100 3101	5100 5101 5102	-18 thru -23	1/4 to 5/16	N1300 N1301 N1302	3000X 3001X	N5000 N5001 N5002	-25 thru -31
	45°	—	—	—										
	90°	—	—	—						5/8	1308	4000	5008	-62
.038	0°	67-923	67-971	68-025	1/4 to 21/32	1400 1401 1402	3100 3101	5100 5101 5102	-25 thru -66	3/8 to 9/16	N1300 N1301	3000X 3001X	N5000 N5001	-37 thru -56
	45°	—	67-973	68-026						1 to 1.02	N1302		N5002	-100 thru -102
	90°	67-927	—	68-027	1/2 to 1	1408	4100	5108	-50 thru -100	3/4 to 1	1308	4000	5008	-75 thru -100
					1/8 to 5/32	1440		5555	-12 thru -15	5/8 to 1.02	N1300 N1301	3000X 3001X	N5000 N5001	-62 thru -102
.047	0°	—	—	68-028	11/16 to 7/8	1400 1401	3100 3101	5100 5101	-68 thru -87					
	45°	—	—	68-029	13/16 to 1	1408	4100	5108	-81 thru -100	1 to 1.02	N1302		N5002	-100 thru -102
	90°	—	—	68-030	3/16 to 1/4	1440		5555	-18 thru -25	1-1/16 to 1-3/8	1308	4000	5008	-106 thru -137
.070	0°	67-929	67-977	68-031	15/16 to 1-7/16	1400 1401	3100 3101	5100 5101	-93 thru -143	1-1/16 to 1-3/4	N1300 N1301 N1302	3000X 3001X	N5000 N5001 N5002	-106 thru -175
	45°	—	—	68-032				5102	-100 thru -143					
	90°	—	—	68-033	1 to 1-7/16	1402		5102	-100 thru -143					
					1-1/16 to 2	1408	4100	5108	-106 thru -200	1-7/16 to 2	1308	4000	5008	-143 thru -200
					5/16 to 5/8	1440		5555	-31 thru -62					
.090	0°	—	67-983	68-034	1-1/2 to 3-1/2	1401 1402	3100	5100 5102	-150 thru -350	1-3/16 to 3	N1300 N1302	3000X 3001X	N5000 N5002	-181 thru -300
	45°	—	—	68-035				5101	-150 thru -175	2-1/16 to 3	1308	4000	5008	-206 thru -300
	90°	—	—	68-036	1-1/2 to 1-3/4	1401	3101	5108	-215 thru -334					
					2-5/32 to 3-11/32	1408	4101							
.115	0°	67-935	—	—	1-1/2 to 3-1/2	1400 1401 1402	3100 3101	5100 5101 5102	-150 thru -350					
	45°	—	—	—										
	90°	—	—	—	2-1/8 to 3-11/32	1408	4100	5108	-215 thru -334					

Internal/External Retaining Ring Plier Set 68-040

Contents: All 12 Convertible Retaining Ring Pliers, 68-025 through 68-036. Furnished in blow-molded plastic case. Includes retaining ring chart, and spaces for storing rings.

Approximate weight, 3.50 pounds.





Light Duty Retaining Ring Plier Set 68-065

Contents: Two replaceable tip Retaining Ring Pliers-one external (for shaft diameters 3/8" 1-1/4"), one internal (for bore diameters 3/8"-1-1/4"). Includes 68-067 replaceable tip set. Comes complete in plastic box (pliers not sold separately).

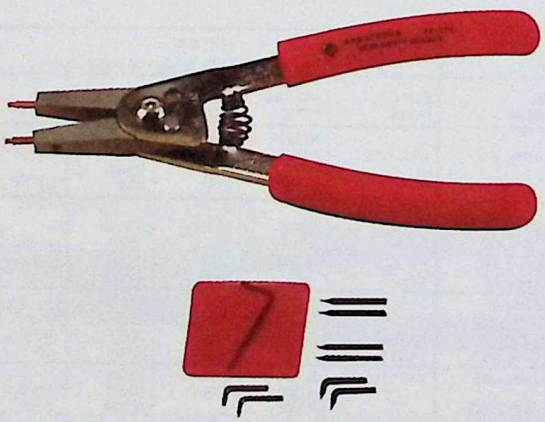
Approximate weight, .73 lbs.

Replacement Tip Set 68-067

Designed to be used with 68-065 replaceable tip Retaining Ring Plier Set. Contents: 8 pairs of color coded interchangeable replaceable tips.

Approximate weight, .04 lbs.

2 pairs, straight, .047 dia., Silver	2 pairs, 45° angle, .047 dia., Silver
2 pairs, straight, .070 dia., Gold	2 pairs, 90° angle, .038 dia., Black



Convertible (Internal/External) Retaining Ring Pliers, Replaceable Tip

Easily convertible for both internal and external applications. Spring-loaded handles speed operation, and ratchet mechanism on largest size helps control large retaining rings. Replaceable tips are locked into place with set screw. Hex Key is included.

Product Number	Includes Tips, Dia./Angle	For Shafts & Bores, Dia.	Weight, Lbs.
68-069	.023/0°, .036/0°, .036/90°, .047/0°, .047/90°	1/8 to 1	.38
68-070	.036/0°, .036/90°, .047/0°, .047/90°, .070/0°	1/4 to 2	.59
68-071	.090/15°, .108/15°, .120/15°, .090/90°, .108/90°, .120/90°	1-1/2 to 4	1.25

Replacement Tip Sets

For use with Internal/External Convertible Pliers. Each tip set is furnished in plastic pouch, and includes hex key.

Product Number	Includes Tips, Dia./Angle	For Shafts & Bores, Dia.	Weight, Lbs.
68-074	.023/0°, .036/0°, .036/90°, .047/0°, .047/90°	68-069	.03
68-075	.036/0°, .036/90°, .047/0°, .047/90°, .070/0°	68-070	.04
68-076	.090/15°, .090/90°, .108/15°, .108/90°, .120/15°, .120/90°	68-071	.06

Internal/External Convertible Plier Set 68-079

Contents: 3 Pliers and 3 Replacement Tip Sets in blow-molded plastic case. Approximate weight, 3.48 pounds.
Includes:

Plier Number	For Shaft & Bore Dia., In.
68-069	1/8" to 1"
68-070	1/4" to 2"
68-071	1-1/2" to 4"

Tip Set Number	For Shaft & Bore Dia., In.
68-074	1/8" to 1"
68-075	1/4" to 2"
68-076	1-1/2" to 4"

Always wear eye protection

Heavy Duty Retaining Ring Plier Set 68-080

Contents: Two replaceable tip Retaining Ring Pliers with spring ratchet lock assembly—one external (for shaft diameters 1-1/2" through 3-3/4"), and one internal (for bore diameters 2-7/16" through 4"). Includes 8 pairs of interchangeable tips, and blow-molded plastic case. Approximate weight, 2.47 pounds.

Interchangeable tips:	Interchangeable tips:
1 pair, straight, .108" dia., Black	1 pair, straight, .120" dia., Silver
1 pair, 15° angle, .108" dia., Black	1 pair, 15° angle, .120" dia., Silver
1 pair, 45° angle, .108" dia., Black	1 pair, 45° angle, .120" dia., Silver
1 pair, 90° angle, .108" dia., Black	1 pair, 90° angle, .120" dia., Silver

Replacement Tip Set 68-082

For use with Heavy Duty Retaining Ring Plier Set 68-080
Approximate weight, .07 lbs.

1 pair, straight, .108" dia., black	1 pair, 45° angle, .108" dia., black
1 pair, 15° angle, .108" dia., black	1 pair, 90° angle, .108" dia., black

Replacement Tip Set 68-083

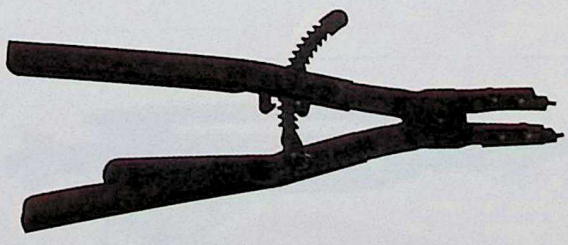
For use with Heavy Duty Retaining Ring Plier Set 68-080
Approximate weight, .07 lbs.

1 pair, straight, .120" dia., silver	1 pair, 45° angle, .120" dia., silver
1 pair, 15° angle, .120" dia., silver	1 pair, 90° angle, .120" dia., silver

Super Heavy Duty Retaining Ring Pliers

Extra large retaining rings require a great deal of force to expand or compress during installation or removal. Under these pressures, a flying ring can become a dangerous missile. These 16" long pliers are the answer. In addition to providing the leverage necessary to handle big retaining rings, they feature a spring-loaded ratchet mechanism which allows ring to be compressed or expanded in gradual "moves." Tool then locks at desired size, requiring no hard pressure on handle to maintain control of ring. Tools are furnished with straight tips. Angled tips are also available. See Replacement Tip Sets.

Product Number	Description
68-090	.120 Tip, Internal, 16" Long
68-095	.120 Tip, External, 16" Long



Retaining Ring Manufacturers Cross Reference

Tip Dia., In.	Tip Angle	Product		INTERNAL For Retaining Rings by following manufacturers					EXTERNAL For Retaining Rings by following manufacturers				
		Internal	External	Bore Dia., Inches	Anderton United	Industro	Truarc	Dash Number	Shaft Dia., Inches	Anderton United	Industro	Truarc	Dash Number
.120	0°	68-090	68-095	3-1/16 to 6-1/4 3-5/32 to 4	N1300 1308	3000X 4000	5000 5008	-306 thru -625 -315 thru -400	3-9/16 to 6-1/2 3-1/2 to 4	1400 1408	3100 4100	5100 5008	-354 thru -650 -350 thru -400

SAFETY NOTICE

FLYING RINGS CAN RESULT IN EYE INJURY. ALWAYS WEAR EYE PROTECTION.

Replacement Tip Set 68-092

For use with Super Heavy Duty Retaining Ring Plier 68-090

Approximate weight, .06 lbs.

- 1 pair, straight, .120" dia., black
- 1 pair, 45° angle, .120" dia., black
- 1 pair, 90° angle, .120" dia., black

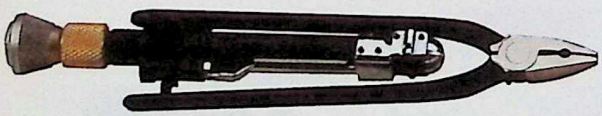
Replacement Tip Set 68-097

For use with Super Heavy Duty Retaining Ring Plier 68-095

Approximate weight, .06 lbs.

- 1 pair, straight, .120" dia., black
- 1 pair, 90° angle, .120" dia., black
- 1 pair, 45° angle, .120" dia., black

Wiretwister Pliers are essential tools for safety-wiring fasteners in engines, gearboxes or any assembly where fasteners cannot be permitted to "back out," and/or when it is critical that precise torque is maintained. Cutting knives are specially heat treated to ease cutting of stainless steel wire, and diamond-pattern serrations on jaws grip wire securely.



Wiretwister Pliers, Manual, Tapered Nose

Product Number	For Wire Size, Inches	Length, Inches	Weight, Lbs.
68-161	.020" to .041"	6	.59

Wiretwister Pliers, Manual, Diagonal Nose

Product Number	For Wire Size, Inches	Length, Inches	Weight, Pounds
68-163	.020" to .041"	6	.59

Wiretwister Pliers, Manual, Right Hand Twist

Product Number	For Wire Size, Inches	Length, Inches	Weight, Pounds
68-171	.020" to .060"	9	.85

Wiretwister Pliers, Automatic, Right Hand Twist

Product Number	For Wire Size, Inches	Length, Inches	Weight, Pounds
68-175	.020" to .060"	9	.85

Wiretwister Pliers, Deep Reach

Product Number	For Wire Size, Inches	Length, Inches	Weight, Pounds
68-191	.020" to .041"	19	.43

Always wear eye protection when near tools in use

Wiretwister Plier Set 68-199

Contents: 3 Wiretwister Pliers and 3 spools of stainless steel safety wire in sizes: .020", .032" and .041". In fitted, blow-molded plastic case.

Approximate weight, 3.32 pounds.

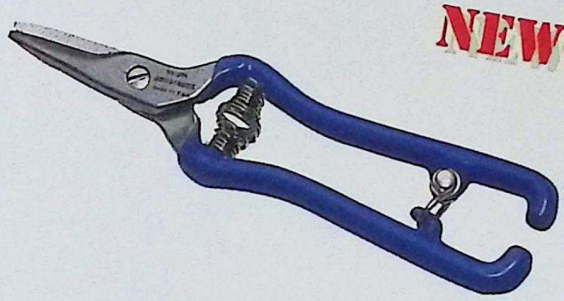
Plier Sizes	
6" Tapered Nose	19" Deep Reech
9" Auto Right Hand	

Miniature Snips, Cushion Grips

NEW!

These light duty snips can cut sheet metal or wire up to .025" thick. Spring keeps handles open during use, but they can be locked closed to protect cutting edges during storage.

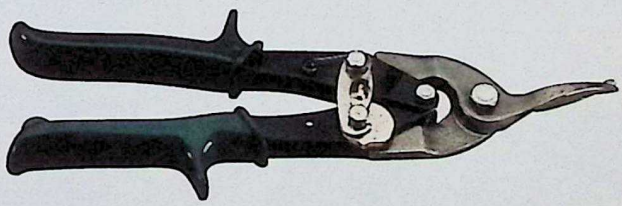
Product Number	Length of Cut, Inches	Tool Length, Inches	Weight, Pounds
68-241	1-1/4	6-1/2	.29



Aviation Snips, Color Coded Vinyl Grips

Compound leverage design makes for easy cutting in a wide range of materials from very light stainless to heavy 18 gauge steel. Jaws are drop forged steel, carefully heat treated; cutting edges are serrated. Spring-activated latch unlocks jaws automatically when handles are pressed together. Latch cannot close accidentally.

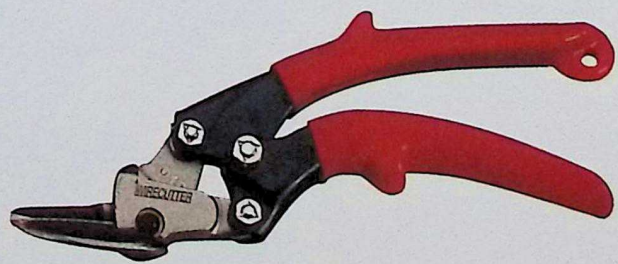
Product Number	Cuts	Grip Color	Length of Cut, Inches	Tool Length, Inches	Weight, Lbs.
68-251	Left	Red	1-3/8	10	1.08
68-253	Right	Green	1-3/8	10	1.08
68-255	Straight	Yellow	1-3/8	10	1.08



Offset Aviation Snips, Color Coded Vinyl Grips

All of the features of our straight pattern Aviation Snips, plus the considerable advantage of jaws offset below the grips. The offset design makes cutting sheet metal easier and more comfortable, and provides greater safety as hand stays above the work and well away from any sharp or jagged edges.

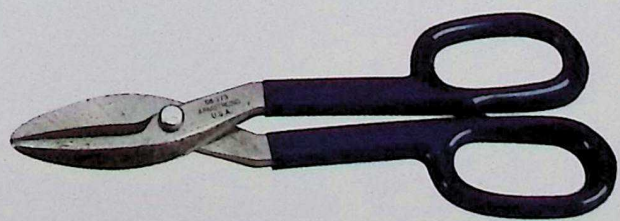
Product Number	Cuts	Grip Color	Length of Cut, Inches	Tool Length, Inches	Weight, Lbs.
68-261	Left & Straight	Red	1-1/4	10	1.22
68-263	Right & Straight	Green	1-1/4	10	1.22



Straight Cutting Snips, Cushion Grips

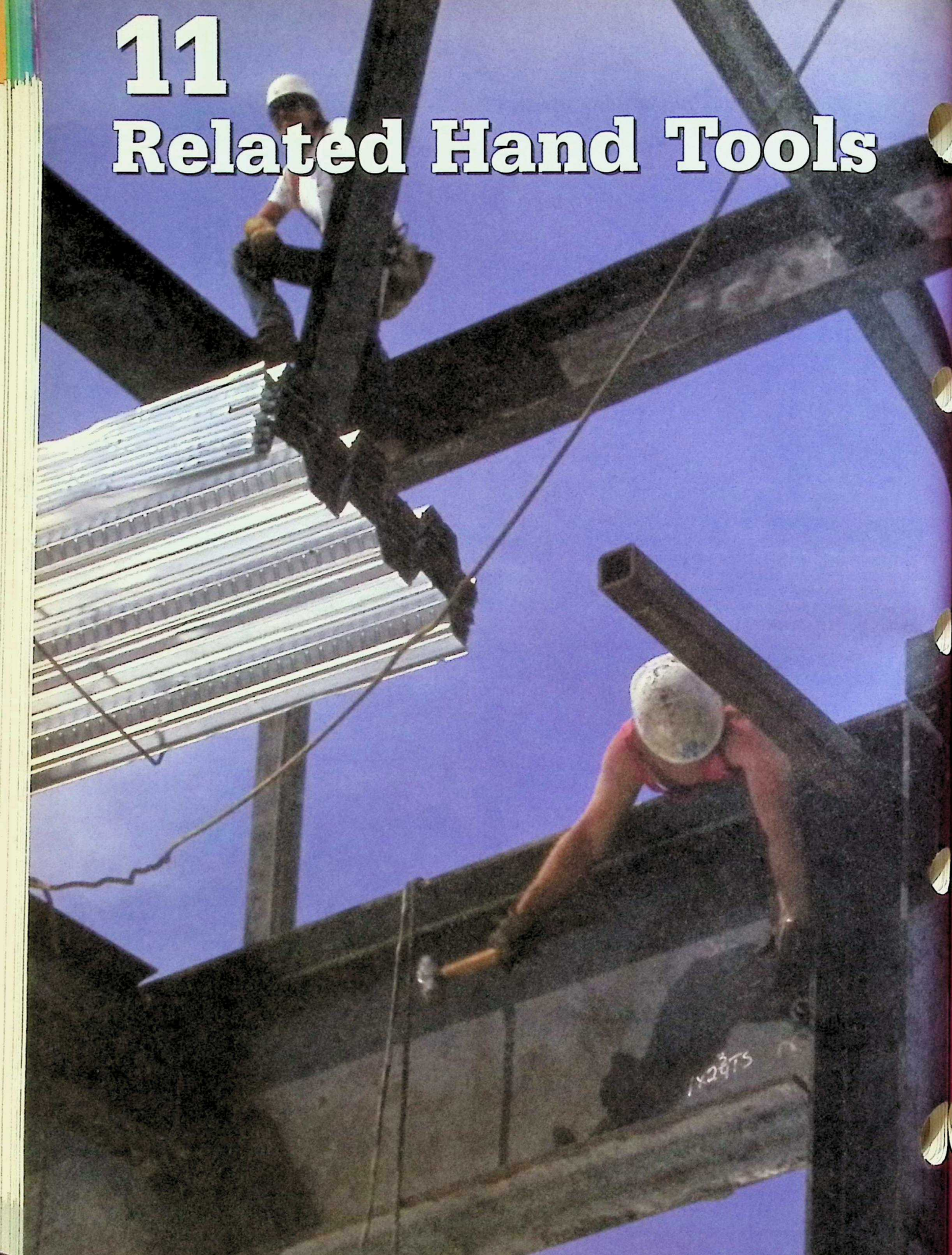
Designed for cutting in straight lines only, including inside and outside corners.

Product Number	Length of Cut, Inches	Tool Length, Inches	Weight, Pounds
68-271	2	7	.39
68-273	2-1/4	10	.82
68-275	3	12-3/4	1.45
68-278	2-1/2	16-1/2	3.63



Guidelines, see Appendix A.

11 Related Hand Tools



Related Hand Tools

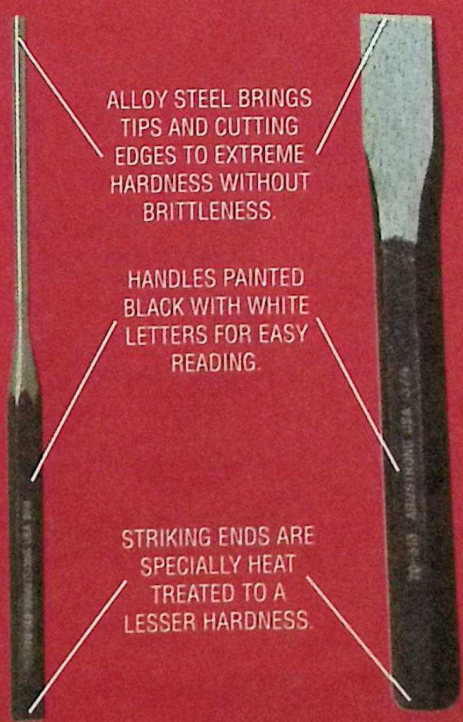
The breadth of Armstrong's engineering and manufacturing experience is really evident in our wide range of related hand tools for the professional. And no other full-line hand tool company can equal Armstrong in the variety offered.

Whether it's a tiny punch or a 13 lb. sledge hammer, you can fill out your tool box knowing each of these tools carries the famous Armstrong lifetime guarantee of complete satisfaction.

- Soft Face Hammers
- Dead Blow Soft Face Hammers
- Claw Hammers
- Ball Pein Hammers
- Copper Hammers
- Drilling Hammers
- Sledge Hammers
- "Power Drive" Dead Blow Hammers
- Brass Hammers
- Rubber Mallets
- Utility Knives
- Measuring Tapes
- Punches & Chisels
- Pinch Bars
- Pry Bars
- Feeler Gauges
- Hack Saws / Blades
- Inspection and Retrieving Tools
- Screw Extractors
- Scrapers

HAMMERS

PUNCHES AND CHISELS



ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS

Utility Knife

Cast metal case with 4-position blade control. Extra blades are stored in case. Heavy duty replacement blades fit all standard knives by most manufacturers.

Product Number	Length, Inches	Weight, Lbs.
68-310	6	.27

Replacement Blades

Product Number	Weight, Lbs.
68-312	.04

*Sold in packages of 5 only.

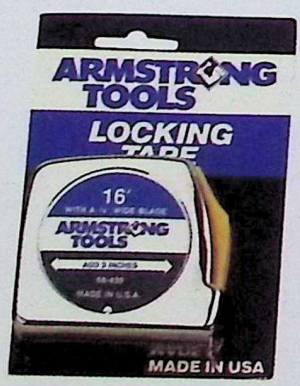
Thin Measuring Tape

Handy, pocket-size steel tape. Yellow blade is protected to resist oils and solvents. Graduated in 1/32" for first six inches; 1/16" thereafter.

Product Number	Blade Width, Inches	Blade Length, Feet	Weight, Lbs.
68-410	1/4	6	.16

Replacement Blades

Product Number	Weight, Lbs.
68-475	.07



Auto-Return, Locking Tapes

The most popular style. Features a cam-activated lock and oversized locking slide to hold tape firmly in extended position. Special stainless steel blade protector (on 3/4" and 1" models) reduces blade breakage by up to 85%. Cases are chrome plated, with a spring steel belt clip. Yellow blades have convenient black stud markings every 16 inches, and are graduated in 1/32" for first six inches; 1/16" thereafter. Replacement Blades fit cases by most other manufacturers.

Product Number	Blade Width, Inches	Blade Length, Feet	Weight, Lbs.
68-430	1/2	10	.45
68-433	1/2	12	.48
68-436	3/4	12	.50
68-439	3/4	16	.55
68-442	3/4	20	.64
68-445	1	25	.90

Replacement Blades

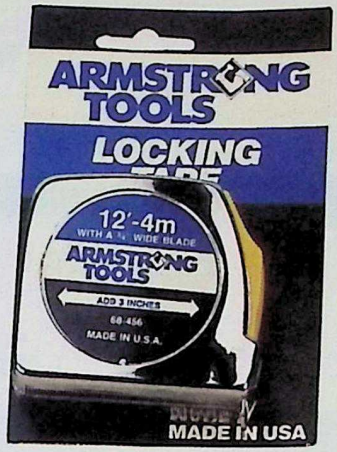
Product Number	Weight, Lbs.	Use With
68-480	.18	68-430
68-481	.19	68-433
68-483	.20	68-436
68-484	.22	68-439
68-485	.26	68-442
68-488	.36	68-445

Always wear eye protection when

Metric/English Auto-Return, Locking Tapes

Same features as 68-430 and 68-445 except blade is graduated in both mm and inches.

Product Number	Blade Width, Inches (mm)	Blade Length, Feet (M)	Weight, Lbs.
68-450	1/2 (12.7)	10 (3)	.45
68-456	3/4 (19.1)	12 (3.65)	.50



Replacement Blades

Product Number	Weight, Lbs.	Use With
68-490	.18	68-450
68-492	.20	68-456

Manual-Return, Long Tapes

Die cast cases are vinyl-covered. Easy-to-use rewind handle folds out of the way when not in use. Convenient true-zero end hook permits simple, accurate one person measurement. Yellow blade with black markings.

Product Number	Blade Width, Inches	Blade Length, Feet	Weight, Lbs.
68-470	3/8	50	1.04
68-472	3/8	100	1.82

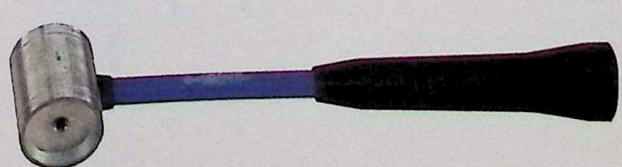
Replacement Blades

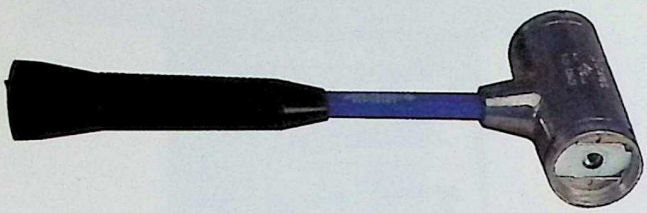
Product Number	Weight, Lbs.	Use With
68-495	.62	68-470
68-497	1.09	68-472

Soft Face Hammers with Fiberglass Handles

For use wherever pounding without marring the work is important. Heads are designed to hold interchangeable tips of varying degrees of hardness-from super soft to extra hard. Fiberglass handle shafts are made with continuous parallel strands reinforced with polyester plastic. Non-slip molded handle grip helps absorb shock.

Product Number	Weight Class	Head		Handle Length, Inches	Weight, Lbs.
		Diameter, Inches	Length, Inches		
69-001	5 oz.	1	2	11-3/8	.37
69-003	8 oz	1	2	11-3/8	.49
69-009	12 oz.	1-1/2	2-3/8	13	.47
69-011	1 lb	1-1/2	4-1/2	13	.88
69-013	1-1/4 lb.	1-1/2	2-3/8	13	1.06
69-017	1-1/4 lb.	2	2-1/2	13	.99
69-019	2 lb.	2	2-1/2	13	1.65
69-025	2 lb.	2-1/2	3-1/4	15	1.76
69-027	4 lb.	2-1/2	3-1/4	13	3.62
69-031	3-1/2 lb.	3	3-3/4	14	2.50
69-033	6 lb.	3	3-3/4	14	5.01

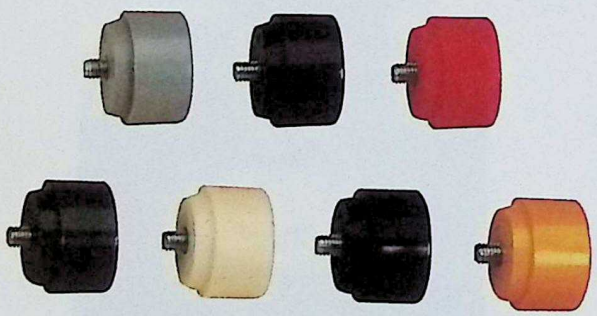




Dead-Blow Soft Face Hammers with Fiberglass Handles

Dead Blow Hammers incorporate all features found in soft face hammers, but also increase the impact load up to 30%, while eliminating rebound. This is due to the shot contained in the specially designed head.

Product Number	Weight Class	Head Diameter, Inches	Head Length, Inches	Handle Length, Inches	Weight, Lbs.
69-065	1-1/2 lb.	1-1/2	6-1/4	12	1.85
69-069	2-3/4 lb.	2	8-5/8	12	2.99



Soft Face Hammer Tips

Soft Face Tips are color coded to indicate hardness. They won't mar painted or polished surfaces and won't gash, mushroom or chip. Vibration and rebound are highly reduced. Tapered tips thread directly into hammer head and seat in head well through friction fit.

Product Inches	Diameter, inches	Hardness	Color Code	Weight, Lbs.
69-141	1	Super Soft	Gray	.04
69-142	1	Soft	Brown	.04
69-143	1	Medium	Red	.04
69-145	1	Tough	Green	.05
69-146	1	Med. Hard	Cream	.03
69-148	1	Hard	Black	.04
69-149	1	Extra Hard	Yellow	.04
69-151	1-1/2	Super Soft	Gray	.09
69-152	1-1/2	Soft	Brown	.09
69-153	1-1/2	Medium	Red	.10
69-155	1-1/2	Tough	Green	.10
69-156	1-1/2	Med. Hard	Cream	.09
69-158	1-1/2	Hard	Black	.11
69-159	1-1/2	Extra Hard	Yellow	.11
69-161	2	Super Soft	Gray	.21
69-162	2	Soft	Brown	.20
69-163	2	Medium	Red	.20
69-165	2	Tough	Green	.21
69-166	2	Med. Hard	Cream	.18
69-168	2	Hard	Black	.23
69-169	2	Extra Hard	Yellow	.23
69-171	2-1/2	Super Soft	Gray	.34
69-172	2-1/2	Soft	Brown	.35
69-173	2-1/2	Medium	Red	.37
69-175	2-1/2	Tough	Green	.37
69-176	2-1/2	Med. Hard	Cream	.32
69-178	2-1/2	Hard	Black	.39
69-179	2-1/2	Extra Hard	Yellow	.40
69-181	3	Super Soft	Gray	.59
69-182	3	Soft	Brown	.58
69-183	3	Medium	Red	.59
69-185	3	Tough	Green	.62
69-186	3	Med. Hard	Cream	.52
69-188	3	Hard	Black	.65
69-189	3	Extra Hard	Yellow	.66

Hardness Conversion Guide

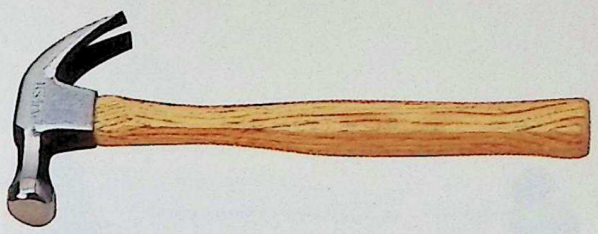
	Super Soft	Soft	Medium	Tough	Med. Hard	Hard	Extra Hard
Soft Rubber	■	■					
Soft Lead		■					
Wood		■	■				
Rubber			■				
Rawhide			■	■	■	■	■
Brass			■				
Hardwood				■	■		
Plastic				■		■	
Lead				■	■		
Micarta						■	■
Fiber						■	■
Copper							■

Always wear eye protection when near tools in

Curved Claw Hammer, Hickory Handle

Hammer head is drop forged from selected steel and carefully heat treated. Striking head, sides and claw are highly polished. Curved claw model has octagon face and neck. All Claw Hammers feature select, flame-treated hickory handles which are triple wedged into tapered eye.

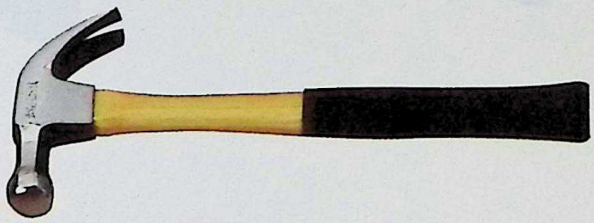
Product Number	Weight Class	Length, Inches	Weight, Lbs.
69-308	16 oz.	13	1.43



Claw Hammer, Fiberglass Handle

Same hammer head features as on curved claw models. Hollow core fiberglass handle provides better balance and more effectively absorbs shock than solid fiberglass handles. Handle is both steel wedged and epoxy sealed; features black neoprene grip.

Product Number	Weight Class	Length, Inches	Weight, Lbs.
69-350	20 oz.	14	1.89



Ball Pein Hammers, Fiberglass Handle

Hammer heads are drop forged from selected steel and black finished. Face, cheeks and peins are highly polished. Hollow core fiberglass handle provides better balance, absorbs shock better than solid fiberglass. Comfortable non-slip handle grips.

Product Number	Weight Class	Length, Inches	Weight, Lbs.
69-404	8 oz.	12-1/2	1.00
69-406	12 oz.	13	1.26
69-408	1 lb.	13	1.47
69-410	1-1/2 lb.	14-1/2	2.07
69-412	2 lb.	14-3/4	2.63

Replacement Handle Kits

Hollow Core Fiberglass, for "natural-color" Ball Pein Hammers

Product Number	Length, Inches	For Hammers	Weight, Lbs.
69-418	12-13/16	69-404, 69-406, 69-408	.42
69-420	14-9/16	69-410, 69-412	.57

CAUTION:
A hammer can be made to chip if struck against another hammer face or other hard surface, resulting not only in damage to the tool, but possibly in eye or other bodily injury. Always strike squarely, and never strike with side of hammer. Never use a hammer with a loose or damaged handle.

Ball Pein Hammers, Hickory Handle

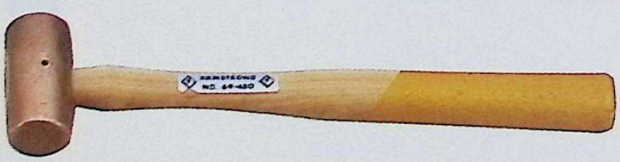
Hammer heads are drop forged from selected steel and black finished. Striking face and peins are highly polished. Handles are made from the finest second growth white hickory. They are flame treated, clear laquered and securely wedged into hammer head.

Product Number	Weight Class	Length, Inches	Weight, Lbs.
69-440	2 oz.	10-1/4	.26
69-442	4 oz.	10-1/4	.43
69-444	8 oz.	12	.81
69-446	12 oz.	12-3/4	1.13
69-448	1 lb.	13-3/4	1.44
69-450	1-1/2 lb.	15-1/4	2.12
69-452	2 lb.	15-3/4	2.69
69-454	2-1/2 lb.	16	2.99

Replacement Handles

Includes second growth white hickory handle and two wedges for extra versatility.

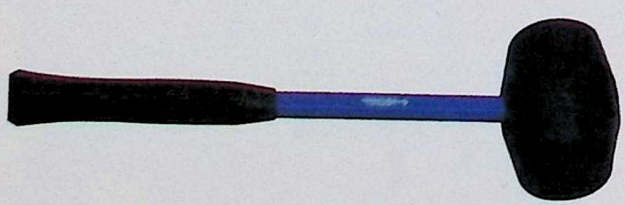
Product Number	Length, Inches	For Hammer	Weight, Pounds
69-460	10-3/4	69-440	.11
69-462	11-1/16	69-442	.16
69-464	12-5/8	69-444	.22
69-466	13-1/16	69-446	.32
69-468	14-1/8	69-448	.39
69-470	15-1/8	69-450	.49
69-472	16	69-452	.53
69-474	16-3/8	69-454	.49



Copper Hammers, Hickory Handle

Soft head reduces risk of marring work. Ideal for driving bushings and gears. Second growth white hickory handle is securely wedged into hammer head.

Product Number	Weight Class	Length, Inches	Weight, Lbs.
69-480	1-1/2 lb.	13-7/16	1.98
69-485	2 lb.	13-1/2	2.34



Rubber Mallet, Fiberglass Handle

Solid, non-flaking rubber head prevents damage. Ideal for any job requiring a large non-marring striking face. Molded rubber grip.

Product Number	Weight Class	Head Diameter, Inches	Head Length, Inches	Mallet Length, Inches	Weighs, Lbs.
69-490	2 lb.	2-7/16	3-7/8	15-3/8	1.91

CAUTION:

A hammer can be made to chip if struck against another hammer face or other hard surface, resulting not only in damage to the tool, but possibly in eye or other bodily injury. Always strike squarely, and never strike with side of hammer. Never use a hammer with a loose or damaged handle.

Always wear eye protection when near tools in use

"Powerdrive" Dead Blow Hammers, Fiberglass Handle

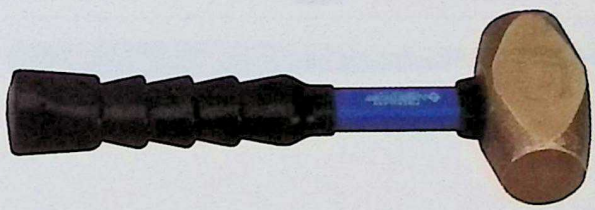
Shot-loaded head delivers up to 30% greater impact while eliminating rebound. Thermoplastic head material won't mar work and will last many times longer than conventional soft tace tips, without mushrooming. Fiberglass handle shafts-made with continuous parallel strands reinforced with polyester plastic-are permanently epoxied to head. Special molded grip is immune to oils and solvents, and provides comfortable, non-slip action, while helping to absorb shock.

Product Number	Weight Class	Head Dia., Inches	Handle Length, Inches	Weight, Lbs.
69-501	1 lb.	1-7/8	11	1.23
69-503	2 lb.	2-1/8	11-3/4	2.39
69-505	3 lb.	2-3/8	12-5/8	3.41
69-507	4 lb.	2-5/8	13	4.33

Brass Hammers, Fiberglass Handle

Soft brass head is surface protective, non-sparking, non-marring, absorbs blow, and reduces rebound. Striking face is machined flat for even blow distribution on off-center hits.

Product Number	Weight Class	Face Dia., Inches	Handle Length, Inches	Weight, Lbs.
69-513	1-1/2 lb.	1-1/16	12	2.21
69-515	2-1/2 lb.	1-1/2	12	3.79
69-517	4 lb.	1-7/8	12	4.83



Hand Drilling Hammer, Hickory Handle

For use with punches, cold chisels, star drills, brick chisels, etc. Broad striking faces and bevels are polished; sides are smooth ground and feature rust resistant black finish. Flame treated, second growth hickory handle.

Product Number	Weight Class	Face Dia., Inches	Handle Length, Inches	Weight, Lbs.
69-605	3 lb.	1-1/4	10-1/4	3.35

Cross Pein Hammers, Hickory Handle

Striking face and ends of pein generously beveled to reduce likelihood of chipping. Face, bevels and pein are polished; sides are smooth ground with black, rust resistant finish. Flame treated, second growth hickory handle is securely wedged to eye.

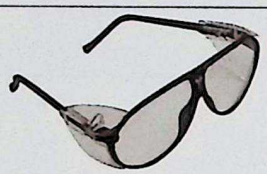
Product Number	Weight Class	Face Dia., Inches	Handle Length, Inches	Weight, Lbs.
69-621	2 lb.	1-1/4	14-1/2	2.38
69-623	2-1/2 lb.	1-11/32	15-1/2	3.07
69-625	3 lb.	1-7/16	16	3.62

Specification Guidelines, see Appendix A.

Double Face Sledge Hammers, Hickory Handle

Striking faces and bevels are polished; sides are smooth ground with rust resistant black finish. Flame treated, second growth hickory handle securely wedged in tapered eye.

Product Number	Weight Class	Face Dia., Inches	Handle Length, Inches	Weight, Lbs.
69-643	2-1/2 lb.	1-3/8	15-1/2	2.88
69-645	3 lb.	1-1/2	16	3.45
69-647	4 lb.	1-3/4	16	4.50
69-649	6 lb.	2-1/8	36	7.00
69-651	8 lb.	2-1/4	36	9.00
69-653	10 lb.	2-1/2	36	11.00
69-655	12 lb.	2-5/8	36	13.00



Safety Glasses 69-990

Attractive, modern styling. Black frames with clear sideshields and clear lenses. These glasses comply with ANSI Z87.1 standards. Approximate weight, .20 pounds.

Steel Punches and Chisels

Choose from this broad selection the exact punch or chisel needed for any application. Use of alloy steel enables us to bring cutting edges and tips to extreme hardness without creating brittleness. Striking ends are drawn back to a lesser hardness. This careful heat treating of highest grade alloy steel ensures longer tool life. Handles painted black with easy-to-read white lettering.

Pin Punches-Standard Length

Product Number	Point Diameter, Inches	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-101	1/16	5/16	4-1/4	.07
70-103	3/32	5/16	4-3/4	.08
70-105	1/8	5/16	5	.08
70-107	5/32	5/16	5-1/4	.08
70-109	3/16	5/16	5-1/2	.08
70-129	7/32	3/8	7	.16
70-131	1/4	3/8	7	.18
70-133	5/16	1/2	7	.30

Pin Punches-Extra Long

Product Number	Point Diameter, Inches	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-141	1/8	5/16	8	.10
70-142	5/32	5/16	8	.13
70-143	3/16	1/2	9	.17
70-144	7/32	1/2	9	.19
70-145	1/4	1/2	9	.22
70-147	5/16	1/2	9	.27
70-149	3/8	1/2	9	.37

CAUTION:

Punches and chisels can be made to chip when struck by or against a hard surface, resulting not only in damage to the tool, but possibly an eye or other bodily injury. Always wear safety goggles when near a punch or chisel in use. Never use a punch or chisel with a mushroomed head.

Always wear eye protection when near tool

Solid Punches

Product Number	Point Diameter, Inches	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-153	1/16	5/16	4-1/2	.08
70-155	3/32	5/16	4-1/2	.09
70-157	1/8	5/16	4-1/2	.09
70-159	5/32	3/8	5	.13
70-161	3/16	3/8	5	.13
70-163	7/32	1/2	5-1/2	.27
70-165	1/4	1/2	6	.29
70-167	5/16	5/8	6	.32

Long Taper Punches

Product Number	Point Diameter, Inches	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-187	3/32	3/8	7-1/2	.26
70-189	1/8	3/8	8	.29
70-191	5/32	1/2	8-1/2	.34
70-193	3/16	1/2	9	.38
70-195	7/32	1/2	9-1/2	.45
70-197	1/4	5/8	11	.68
70-199	5/16	5/8	11	.72
70-201	3/8	3/4	12	.76

Aligning Punch

Product Number	Point Diameter, Inches	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-221	5/16	3/4	15-1/2	.82

Center Punches

Product Number	Stock Size, Inches	Length, Inches	Weight, Pounds
70-231	1/4	4	.06
70-233	5/16	4-1/2	.08
70-235	3/8	5	.13
70-239	1/2	6	.28
70-241	5/8	7	.42

Prick Punches

Product Number	Stock Size, Inches	Length, Inches	Weight, Pounds
70-251	1/4	4-1/4	.05
70-253	5/16	4-1/2	.09
70-255	3/8	5	.13
70-257	1/2	6	.29

Cold Chisels-Standard Length

Product Number	Width of Cut, Inches	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-301	1/4	1/4	4-3/4	.08
70-303	5/16	5/16	5	.12
70-305	3/8	5/16	5-1/4	.11
70-307	7/16	3/8	5-1/2	.16
70-309	1/2	3/8	6	.19
70-311	5/8	1/2	6-1/2	.33
70-313	3/4	5/8	7	.60
70-315	7/8	3/4	7-1/2	.91
70-317	1	7/8	8	1.33
70-319	1-1/8	7/8	8	1.39

Cold Chisels-Extra Long

Product Number	Width of Cut, Inches	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-347	5/8	1/2	12	.68
70-353	3/4	5/8	12	1.05
70-355	3/4	5/8	14	1.14
70-357	3/4	5/8	18	1.42
70-361	7/8	3/4	12	1.54
70-367	1	7/8	12	2.08
70-369	1	7/8	18	3.01

Cape Chisels

Product Number	Width of Cut, Inches	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-391	3/16	1/4	5	.08
70-393	7/32	5/16	5	.10
70-395	1/4	3/8	5-1/2	.13
70-397	5/16	3/8	6	.19
70-399	3/8	1/2	6-1/2	.27

Diamond Point Chisels

Product Number	Width of Cut, Inches	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-419	5/32	5/16	5	.06
70-421	3/16	3/8	5	.15
70-423	1/4	3/8	6	.18
70-425	5/16	1/2	6	.40
70-427	3/8	5/8	6-1/2	.47
70-429	1/2	3/4	7	.68
70-431	5/8	7/8	8	.83

Half Round Chisels

Product Number	Width of Cut, Inches	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-447	3/16	1/4	5	.09
70-449	1/4	3/8	5-1/2	.18
70-451	5/16	3/8	6	.31
70-453	3/8	1/2	6-1/2	.37
70-455	1/2	3/4	8	.59

Always wear eye protection when

Rivet Buster

Product Number	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-481	5/8	12	1.08

Pinch Bars

Product Number	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-501	1/2	14	.78
70-503	5/8	16	1.45
70-505	3/4	24	3.08
70-507	7/8	30	4.78
70-509*	7/8	46	7.33
70-511*	1-1/16	54	10.45

*Round Handle

Rolling Head Pry Bars

Product Number	Stock Size, Inches	Length, Inches	Weight, Lbs.
70-517	3/8	9	.29
70-519	1/2	15	.87
70-521	5/8	18	1.59

Pry Bars with Handles

Product Number	Tip Width, Inches	Stock Size, Inches	Blade Length, Inches	OAL, Inches	Weight, Lbs.
70-531	5/8	3/8	7	12	.47
70-533	5/8	3/8	12	17	.75
70-535	11/16	1/2	18	25	1.72
70-537	11/16	1/2	24	31	2.28
70-539	1	5/8	28-3/4	36	3.69

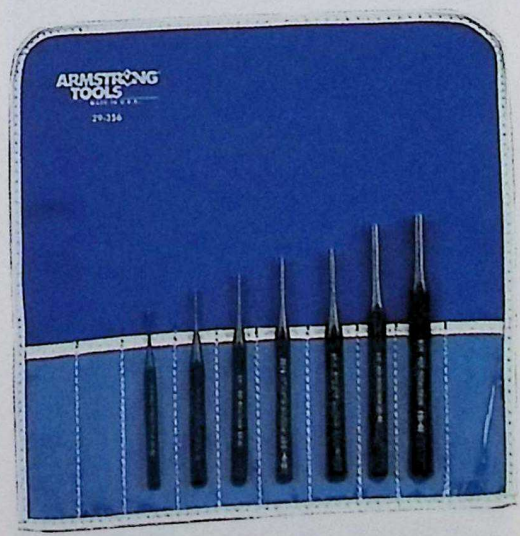
Pin Punch Set 70-551

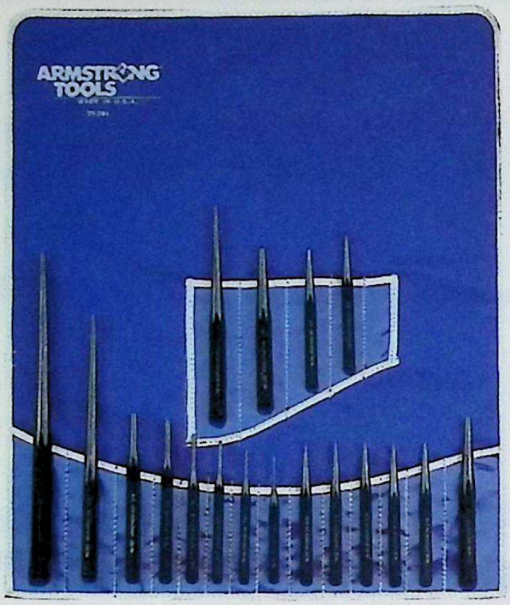
Contents: 7 Pin Punches in Vinyl Roll 29-356.

Approximate weight, 1.02 lbs.

Product Number	Point Diameter
70-101	1/16"
70-103	3/32"
70-105	1/8"
70-107	5/32"

Product Number	Point Diameter
70-109	3/16"
70-131	1/4"
70-133	5/16"





Assorted Punch Set 70-555

Contents: 18 Assorted Punches in Vinyl Roll 29-384.

Approximate weight, 4.21 lbs.

Pin Punches

Product Number	Point Diameter
70-103	3/32"
70-105	1/8"
70-107	5/32"
70-109	3/16"
70-131	1/4"

Solid Punches

Product Number	Point Diameter
70-155	3/32"
70-157	1/8"
70-159	5/32"
70-161	3/16"
70-165	1/4"
70-167	5/16"

Pin Punch

Product Number	Point Diameter
70-133	5/16"

Long Taper Punches

Product Number	Point Diameter
70-191	5/32"
70-193	3/16"
70-197	1/4"

Center Punches

Product Number	Stock Size
70-235	3/8"
70-239	1/2"

Prick Punch

Product Number	Stock Size
70-255	3/8"

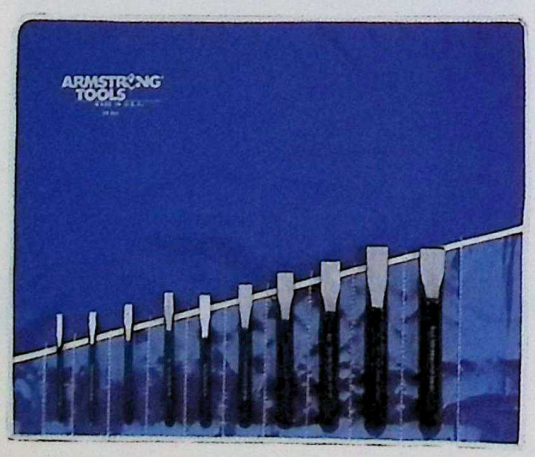
Std. Length Chisel Cold Set 70-561

Contents: 5 Standard Length Cold Chisels in Vinyl Roll 29-316.

Approximate weight, 2.25 lbs.

Product Number	Width of Cut
70-305	3/8"
70-309	1/2"
70-311	5/8"

Product Number	Width of Cut
70-313	3/4"
70-315	7/8"



Std. Length Chisel Cold Set 70-563

Contents: 10 Standard Length Cold Chisels in Vinyl Roll 29-364.

Approximate weight, 5.71 lbs.

Product Number	Width of Cut
70-301	1/4"
70-303	5/16"
70-305	3/8"
70-307	7/16"
70-309	1/2"

Product Number	Width of Cut
70-311	5/8"
70-313	3/4"
70-315	7/8"
70-317	1"
70-319	1-1/8"

Always wear eye protection when near

Assorted Punch & Chisel Set 70-565

Contents: 12 tools. 7 Punches, 5 Chisels. In Vinyl Roll 29-368.

Approximate weight, 1.52 lbs.

Pin Punches

Product Number	Point Diameter
70-103	3/32"
70-105	1/8"
70-109	3/16"

Solid Punches

Product Number	Point Diameter
70-153	1/16"
70-157	1/8"
70-161	3/16"

Center Punch

Product Number	Point Diameter
70-235	3/8"

Cold Chisels

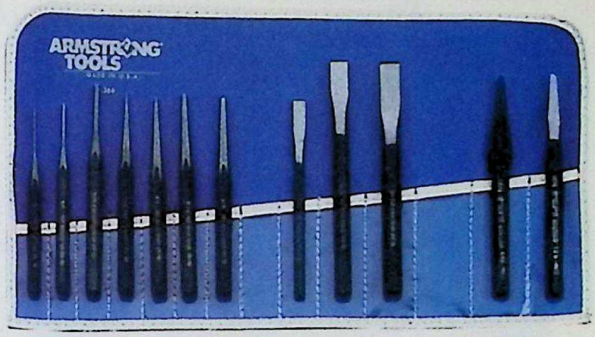
Product Number	Width of Cut
70-303	5/16"
70-307	7/16"
70-309	1/2"

Cape Chisel

Product Number	Width of Cut
70-393	7/32"

Diamond Point Chisel

Product Number	Width of Cut
70-421	3/16"



Assorted Punch & Chisel Set 70-569

Contents: 18 tools. 13 Punches, 5 Chisels. In Vinyl Roll 29-384.

Approximate weight, 7.62 lbs.

Pin Punches

Product Number	Point Diameter
70-103	3/32"
70-105	1/8"
70-109	3/16"
70-131	1/4"

Solid Punches

Product Number	Point Diameter
70-155	3/32"
70-157	1/8"
70-161	3/16"
70-165	1/4"

Long Taper Punches

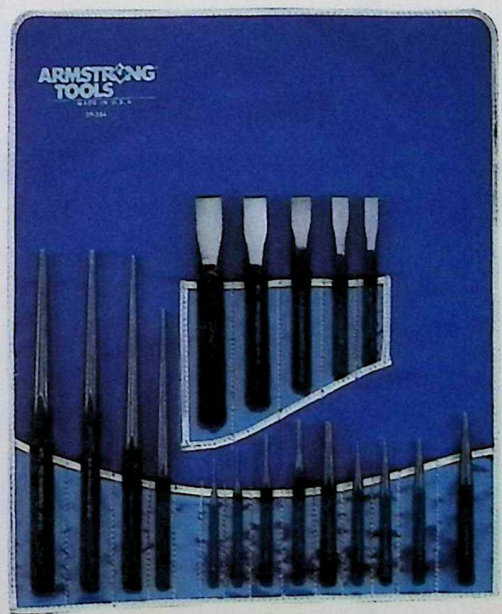
Product Number	Point Diameter
70-193	3/16"
70-197	1/4"
70-199	5/16"
70-201	3/8"

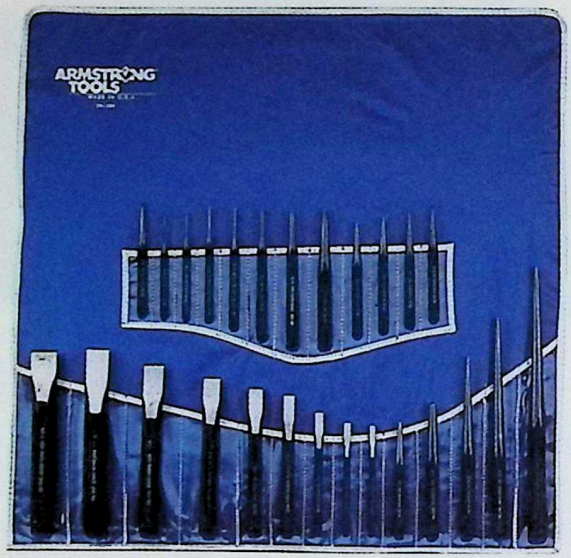
Center Punch

Product Number	Point Diameter
70-239	1/2"

Cold Chisels

Product Number	Width of Cut
70-309	1/2"
70-311	5/8"
70-313	3/4"
70-315	7/8"
70-317	1"





Assorted Punch & Chisel Set 70-571

Contents: 26 tools. 17 Punches, 9 Chisels. In Vinyl Roll 29-388.

Approximate weight, 9.21 lbs.

Pin Punches

Product Number	Point Diameter
70-103	3/32"
70-105	1/8"
70-107	5/32"
70-109	3/16"
70-131	1/4"
70-133	5/16"

Solid Punches

Product Number	Point Diameter
70-155	3/32"
70-157	1/8"
70-159	5/32"
70-161	3/16"
70-165	1/4"

Long Taper Punches

Product Number	Point Diameter
70-191	5/32"
70-193	3/16"
70-197	1/4"

Center Punches

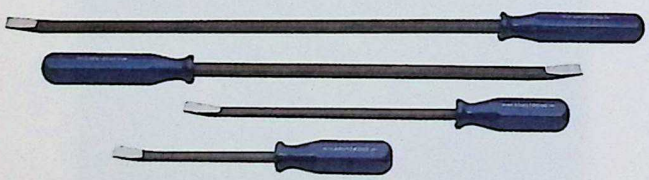
Product Number	Stock Size
70-235	3/8"
70-239	1/2"

Prick Punch

Product Number	Stock Size
70-255	3/8"

Cold Chisels

Product Number	Width of Cut
70-301	1/4"
70-303	5/16"
70-305	3/8"
70-309	1/2"
70-311	5/8"
70-313	3/4"
70-315	7/8"
70-317	1"
70-319	1-1/8"



Pry Bar Set 70-579

Contents: 4 Pry Bars with handles. Packaged in cardboard box without Vinyl Roll.

Approximate weight, 5.22 pounds.

Product Number	Blade Length, Inches
70-531	3/8 x 7
70-533	3/8 x 12

Product Number	Blade Length, Inches
70-535	1/2 x 18
70-537	1/2 x 24

Always wear

Short Feeler Gauges

All blades 1/2" wide x 3-5/16" long, and both fractional and metric thickness sizes are etched onto each blade. Sold in packages of 5 only. Holders, for use when building custom sets, are available.

Product Number	Blade Thickness Inches	mm	Weight, Lbs.*
70-601	.0015	.038	.004
70-602	.002	.051	.006
70-603	.003	.076	.008
70-604	.004	.102	.010
70-605	.005	.127	.012
70-606	.006	.152	.014
70-607	.007	.178	.016
70-608	.008	.203	.020
70-609	.009	.229	.020
70-610	.010	.254	.024
70-611	.011	.279	.026
70-612	.012	.305	.028
70-613	.013	.330	.030

Product Number	Blade Thickness Inches	mm	Weight, Lbs.*
70-614	.014	.356	.032
70-615	.015	.381	.034
70-616	.016	.406	.036
70-617	.017	.432	.038
70-618	.018	.457	.040
70-619	.019	.483	.042
70-620	.020	.508	.046
70-622	.022	.559	.050
70-625	.025	.635	.060
70-630	.030	.762	.068
70-632	.032	.813	.070
70-635	.035	.889	.078
70-640	.040	1.016	.088

*Weight is for standard package of 5 gauges.

Long Feeler Gauges

All blades 1/2" wide x 12" long, and both fractional and metric thickness sizes are etched onto each blade. Sold in packages of 5 only. Holders, for use when building custom sets, are available.

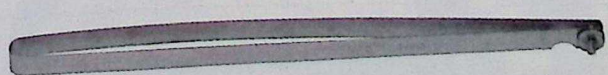
Product Number	Blade Thickness Inches	mm	Weight, Lbs.*
70-701	.0015	.038	.014
70-702	.002	.051	.018
70-703	.003	.076	.026
70-704	.004	.102	.036
70-705	.005	.127	.044
70-706	.006	.152	.052
70-707	.007	.178	.060
70-708	.008	.203	.068
70-709	.009	.229	.078
70-710	.010	.254	.084
70-711	.011	.279	.094
70-712	.012	.305	.104
70-713	.013	.330	.108
70-714	.014	.356	.118
70-715	.015	.381	.126
70-716	.016	.406	.136
70-717	.017	.432	.144

Product Number	Blade Thickness Inches	mm	Weight, Lbs.*
70-718	.018	.457	.152
70-719	.019	.483	.160
70-720	.020	.508	.170
70-721	.021	.533	.172
70-722	.022	.559	.182
70-723	.023	.584	.192
70-724	.024	.610	.202
70-725	.025	.635	.210
70-726	.026	.660	.214
70-727	.027	.686	.228
70-728	.028	.711	.235
70-729	.029	.737	.238
70-730	.030	.762	.250
70-732	.032	.813	.270
70-735	.035	.889	.294
70-740	.040	1.016	.334

*Weight is for standard package of 5 gauges.

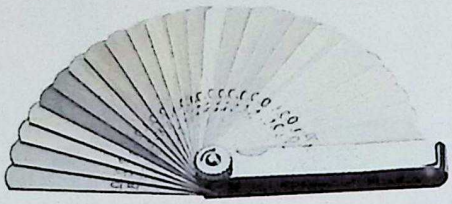
Long Feeler Gauge Holder 70-843

Large enough to accommodate approximately 26 long blades. Weight, .12 lbs.



Standard Feeler Gauge Set 70-791

10 Flat Blades, 3-5/16" x 1/2", in following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .012, and .015. Weight, .07 lbs.

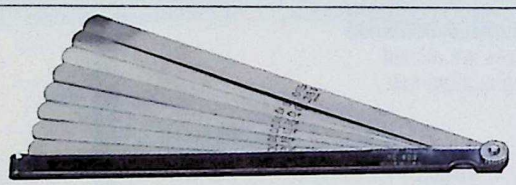


Universal Master Gauge Set 70-793

25 Flat Blades, 3-5/16" x 1/2", in following thicknesses: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .018, .020, .022, .024, .025, .028, .030, .032, and .035. Weight, .20 lbs.

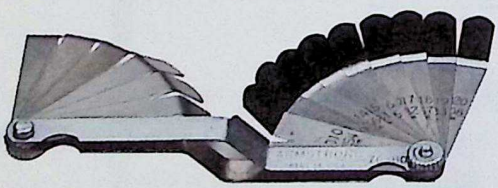
Combination Gauge Set 70-801

Total of 22 Flat Blades. 10 Flat Blades, 3" x 1/2", in following thicknesses: .002, .003, .004, .005, .006, .007, .008, .010, .013, and .015. 12 Flat Blades, 1-3/4" x 1/4" in following thicknesses: .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .022, and .025. Weight, .10 lbs.



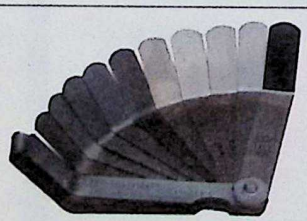
Piston Gauge Set 70-803

8 Flat Blades, 9" x 1/2", in following thicknesses: .002, .003, .004, .005, .006, .008, .010, and .015. Weight, .15 lbs.



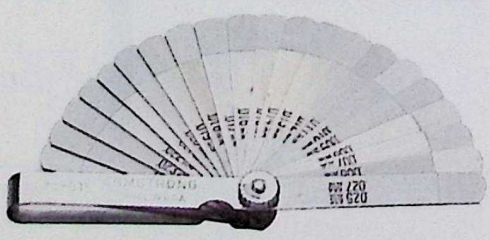
Universal O.H.V. Feeler Gauge Set 70-807

16 Blades with 45° Offset, 3-5/16" x 1/2", in following thicknesses: .009, .010, .011, .014, .015, .016, .017, .018, .019, .020, .021, .023, .024, .025, .026, and .027. Weight, .20 lbs.



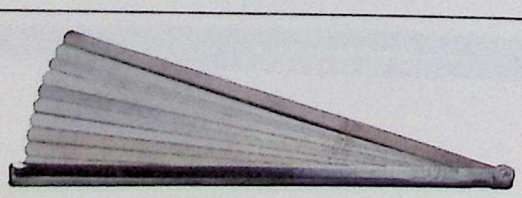
Bent Feeler Gauge Set 70-811

11 Blades with 45° Offset, 4-3/16" x 1/2", in following thicknesses: .006, .008, .010, .011, .012, .013, .014, .015, .018, .019, and .020. Weight, .13 lbs.



Master Go-No-Go Gauge Set 70-815

22 Step-Ground, Go-No-Go Blades, 3-5/16" x 1/2" in following thicknesses: .004-.006, .005-.007, .006-.008, .007-.009, .008-.010, .009-.011, .010-.012, .011-.013, .012-.014, .013-.015, .014-.016, .015-.017, .016-.018, .017-.019, .018-.020, .019-.021, .020-.022, .021-.023, .022-.024, .023-.025, .024-.026, and .025-.027. Weight, .19 lbs.



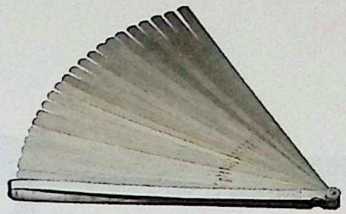
Long Blade Gauge Set 70-817

12 Flat Blades, 12" x 1/2", in following thicknesses: .0015, .002, .003, .004, .005, .006, .008, .010, .012, .014, .015 and .020. Weight, .31 lbs.

Always wear eye protecti

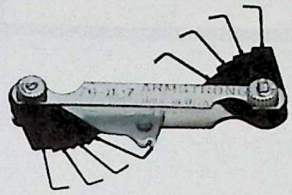
Long Blade Gauge Set 70-819

25 Flat Blades, 12" x 1/2", in following thicknesses: .0015, .002, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .025, .027, .030, and .040. Weight, .74 lbs.



Spark Plug Wire Gauge Set 70-827

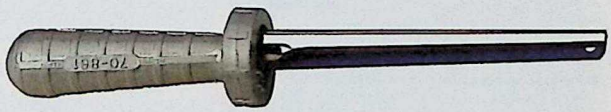
9 Wires, Bent 90° and 1 Electrode Bending Tool. In following thicknesses: .020, .025, .028, .030, .032, .034, .035, .038, and .040. Weight, .06 lbs.



Jab Saw

Can be used as hole saw or flush cut saw. Uses any length blade-even broken ones-and will fit in holes as little as 3/4" diameter. Blade cuts flush when extended. Blade locks in desired position by turning handle. Baked on silver enamel finish. Furnished with one 10'carbon steel blade.

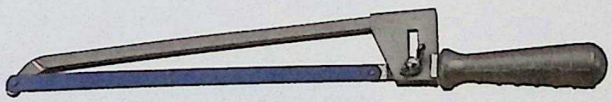
Product Number	Length, Inches	Weight, Lbs.
70-861	10-1/2	.69



Low Clearance Hacksaw

Low profile permits use in restricted areas. Height is adjustable, from 1" to 2". Designed for 10" blades. Finished in silver baked-on enamel, and furnished with one carbon steel blade.

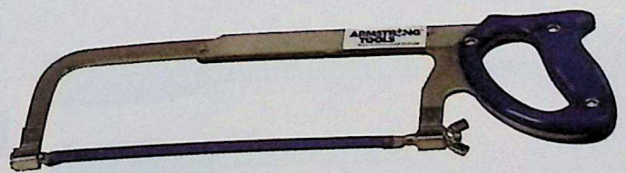
Product Number	Extreme Length, Inches	Height, Inches	Weight, Lbs.
70-863	16-3/8	2-1/8	.98



Flat Frame Hacksaw

Made from selected steel and furnished with one carbon steel blade. Adjustable frame can be used with blades of 10" or 12" long. Can be adjusted to cut at four different angles. Tough plastic handles are designed to provide comfortable grip and good balance.

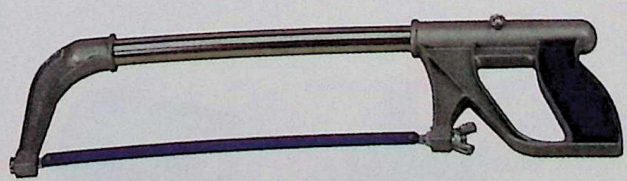
Product Number	Extreme Length, Inches	Height, Inches	Weight, Lbs.
70-865	17-3/4	3-3/4	1.75



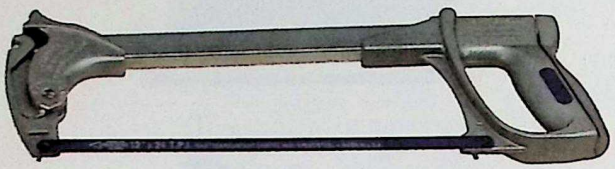
Tubular Frame Hacksaw

Strong, tubular frame adjusts for both 10" and 12" blades, and is lighter than flat frame design. Convenient blade storage in frame; comfortable pistol grip. Tube is chrome plated; other parts finished in silver baked-on enamel with blue plastic grips. Furnished with one 10" carbon steel blade.

Product Number	Extreme Length, Inches	Height, Inches	Weight, Lbs.
70-867	16-5/8	5	1 .07



...Guidelines, see Appendix A.



High Tension Hacksaw

Specially designed for use with 12" long bimetal hacksaw blades. Up to 35,000 psi can be applied to blade and special Tension Indicator shows operator when both carbon steel and bimetal blades have been tightened properly. Rectangular tube design virtually eliminates twisting and built-in knuckle guard protects fingers. Can be adjusted for flush cutting as well as 45° and 90° angle cutting. Rectangular tube and Tension Indicator are chrome plated; other parts are finished in silver baked-on enamel with blue plastic grip inserts. Furnished with one 12" bimetal high speed steel blade.

Product Number	Extreme Length, Inches	Height, Inches	Weight, Lbs.
70-869	16-3/8	5-5/8	1 .92

High Speed Steel Hacksaw Blades

Beige finish. Sold in packages of 10 only.

Product Number	Length, Inches	Width, Inches	Thickness, Inches	Teeth per Inches	Weight, Lbs.*
70-871	10	1/2	.025	18	.40
70-873	10	1/2	.025	24	.36
70-877	12	1/2	.025	18	.47
70-879	12	1/2	.025	24	.42
70-881	12	1/2	.025	32	.49

*Weight is for standard package of 10 blades

Inspection Mirrors

Designed for all types of inspection work where direct sight lines are obstructed. Each features an all-angle ball joint for greater versatility.

Product Number	Mirror Shape	Mirror Size, Inches	Length, Inches	Weight, Pounds
70-921	Circular	7/8	7-1/2	.08
70-923	Oval	1 x 2	8-1/2	.08
70-925	Circular	2-1/4	10 to 14*	.25
70-927	Circular	1-1/4	8	.08
70-929	Rectangular	2-1/8 x 3-1/2	11-1/4 to 15-1/2*	.32

*Has telescoping handle. Minimum and maximum lengths are listed.

Magnetic Retrieving Tools Chrome Plated, Cushion Grip

Magnetic tips and all-angle ball joints make these tools versatile and great time-savers. There's no longer any need to struggle with pliers or magnetized screwdrivers when small parts fall into machines or other inaccessible places. 70-933 has telescoping handle.

Product Number	Length, Inches	Weight, Lbs.
70-933	16-3/4 to 26-3/4	.40
70-935	8-1/2	.08

Flexible Spring Claw

Designed to position or retrieve small objects. Spring-loaded plunger opens jaws at end of flexible casing. When plunger is released, jaws grip object with surprising strength.

Product Number	Length, Inches	Weight, Lbs.
70-943	23-1/2	.26

Screw Extractors

Style preferred by industry since straight, tapering flutes grip more securely than spiral styles, and they won't bind in the screw or cause it to spread against the hole. Can be used for either right or left-handed screws, bolts or studs.

Product Number	For use on Screw sizes	For use on Pipe Sizes	Size of small End, Inches	Size of Shank, Inches	Length, Inches	Use drill Size, Inches	Min depth of Hole, Inches	Weight, Pounds
70-950	#12 to 5/16		1/8	3/16	2-5/16	1/8	3/8	.02
70-952	5/16 to 3/8		11/64	3/16	2-5/8	3/16	1/2	.02
70-954	7/16 to 1/2	1/8	13/64	1/4	2-7/8	15/64	1/2	.04
70-956	1/2 to 9/16	1/4	19/64	5/16	3	5/16	1/2	.06
70-958	9/16 to 5/8	3/8	11/32	3/8	3-1/4	3/8	5/8	.11
70-960	5/8 to 3/4		27/64	7/16	3-7/8	15/32	11/16	.24
70-962	3/4 to 1	1/2	1/2	1/2	4-1/2	9/16	11/16	.27
70-964	1 to 1-1/8	1/2	19/32	5/8	4-7/8	21/32	3/4	.43
70-966	1-1/8 to 1-3/8	3/4	23/32	3/4	5-3/8	13/16	3/4	.71

Screw Extractor Set 70-970

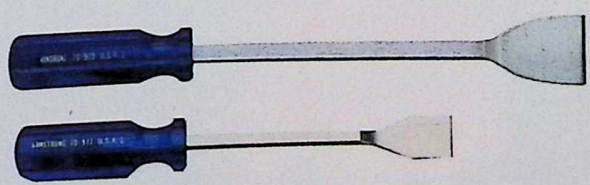
Contents: 5 Screw Extractors in Vinyl Roll 29-312.
Approximate weight, .31 lbs.

Product Number	For Screw Sizes, Inches
70-950	#12 to 5/16
70-952	5/16 to 3/8
70-954	7/16 to 1/2
70-956	1/2 to 9/16
70-958	9/16 to 5/8

Scrapers, Forged Shank, Chrome Plated

Blade slightly curved, allowing tool to lie flat against work for efficient scraping. Can be resharpened repeatedly. Handle is blue plastic.

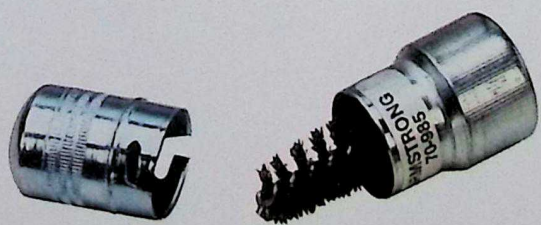
Product Number	Blade Width, Inches	Length, Inches	Weight, Lbs.
70-977	15/16	9-1/2	.25
70-979	1-1/2	13	.38



Battery Post & Clamp Wire Brush, Steel Case, Zinc Plated

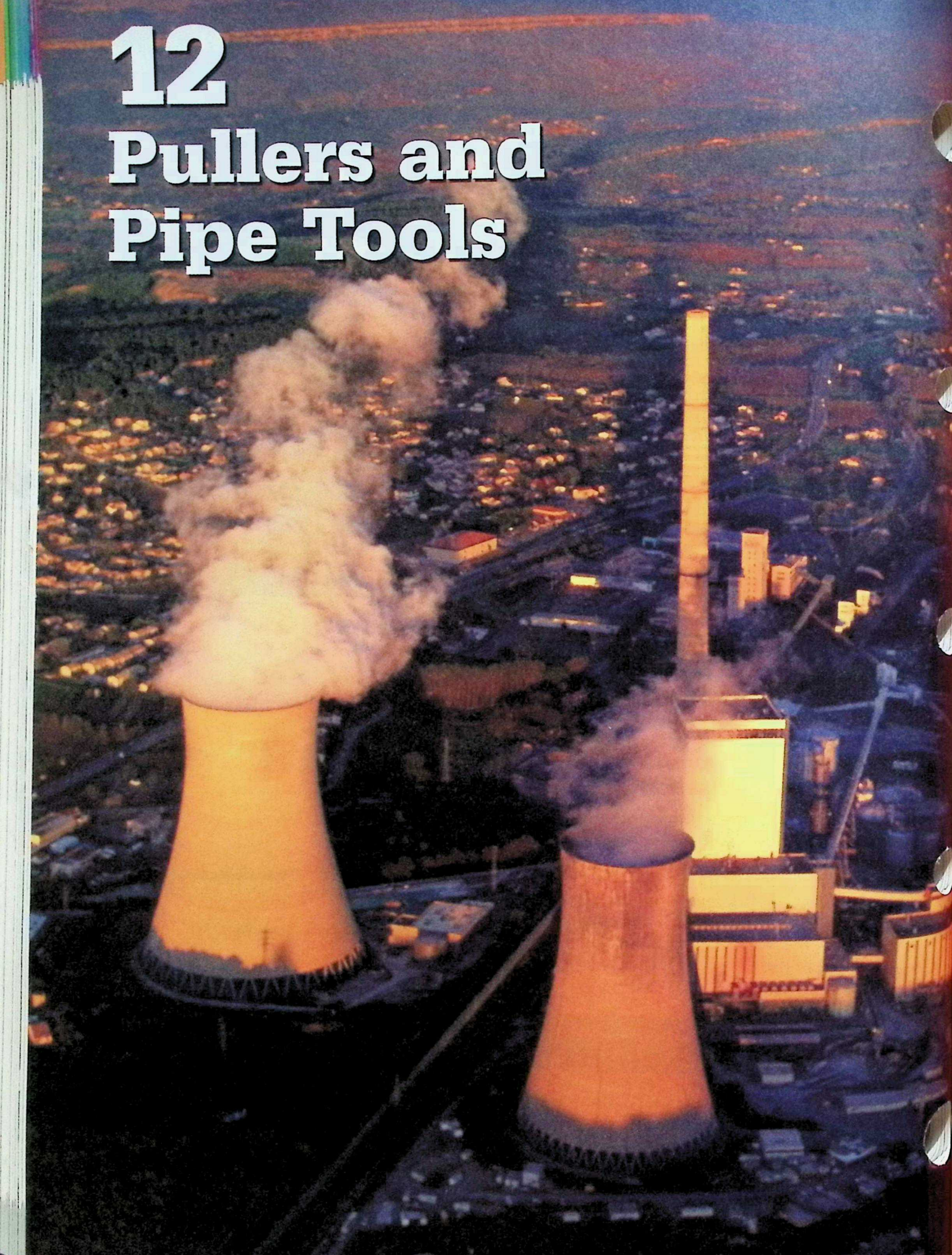
Wire brush in top is shaped to fit snugly inside terminal clamps. Special donut-shaped wire brush in base fits over battery terminal post. Removes all corrosion quickly and easily to insure perfect contact. Brushes permanently mounted in crush-proof case.

Product Number	Length, Inches	Weight, Lbs.
70-985	3-3/8	.25



...Guidelines, see Appendix A.

12 Pullers and Pipe Tools



Pullers and Pipe Tools

The Armstrong line of wheel and gear pullers and our selection of pipe wrenches and tongs gives you a complete range of styles, sizes and capacities to meet just about any industrial application.

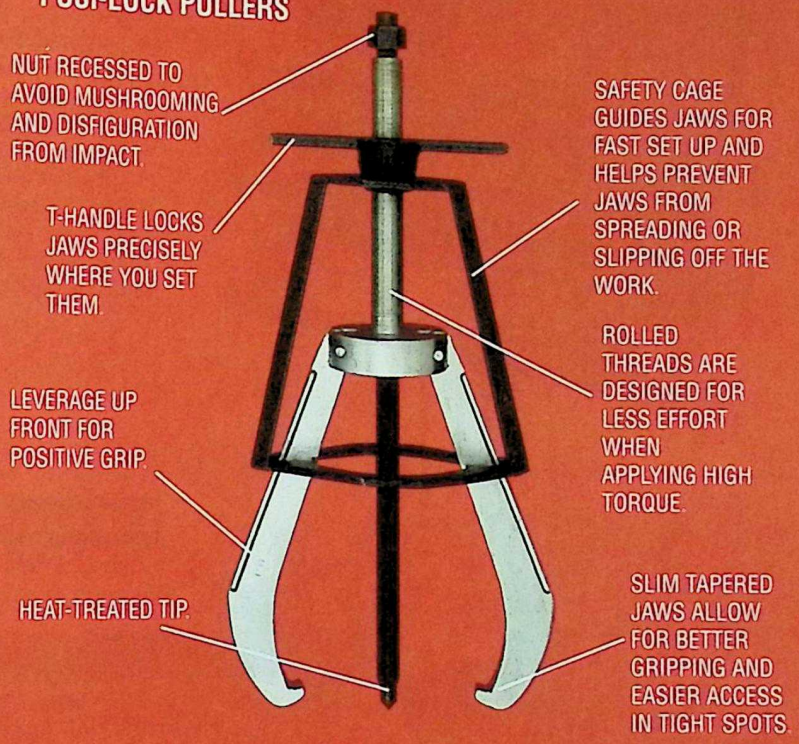
PULLERS

- Internal
- External
- Combination
- Press
- Reversible
- Cross Arm
- Harmonic
- Bearing Separators
- Posi-Lock

PIPE TOOLS

- Wrenches
- Tongs

POSI-LOCK PULLERS



HOW TO CHOOSE A PULLER

It's important when buying a puller that three basic specifications be considered:

REACH

Reach is the distance from the base of the hub to the flats of the jaws. This must be greater than the distance from the end of the shaft to behind the gear or wheel to be pulled. Maximum Reach is always specified.

SPREAD

Spread is the distance between the puller's jaws and must be greater than the diameter of the wheel or gear being pulled. Minimum and maximum spread is noted in each table.

CAPACITY

Capacity is the amount of force each puller is capable of exerting safely without damaging either the puller or the gear. The diameter of the forcing screw should equal at least one half the diameter of the shaft on which it will be used.

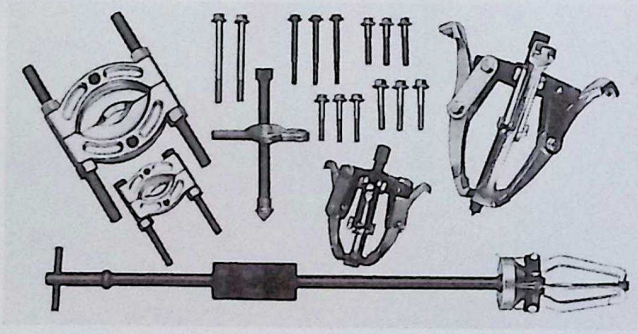
Utility Puller Set 71-300

Contents: 10 Pullers and Puller Accessories in fitted, blow-molded plastic case and removable tray.

Approximate weight, 31.83 pounds.

Includes:

71-402 2-Arm/3-Arm Convertible Puller
71-406 2-Arm/3-Arm Convertible Puller
71-514 Bearing Separator
71-516 Bearing Separator
71-664 Slide Hammer Puller
71-652 Harmonic Balancer Puller
(2) 3-1/2" Narrow Arms for 71-664
2-Arm Hub for 71-664
71-678 Locking Pliers Adapter
68-126 Locking Pliers



General Purpose Puller Set 71-345

Contents: 6 Pullers in cardboard box.

Approximate weight, 25.25 pounds.

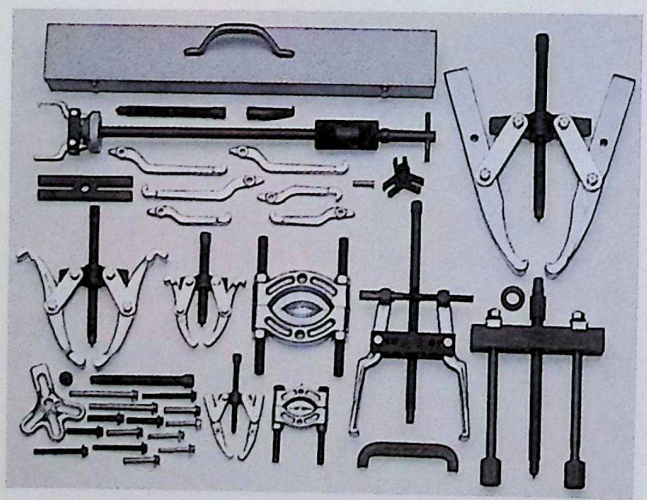
Includes:

2-Arm/3-Arm Conv. Pullers
0 to 7" Spread, 3-1/4" Reach
0 to 10-1/2" Spread, 5" Reach

Harmonic Balancer Puller
1-3/8" to 3-9/16" Spread

Bearing Separators
1/8" to 2-1/4" Capacity
3/8" to 4-1/4" Capacity

Slide Hammer Puller
3-Jaw, 2-1/2 lb



10-Ton Puller Set 71-350

Contents: 18 Pullers and Puller Accessories in cardboard box.

Approximate weight, 61.75 lbs.

Includes:

2-Arm Pullers
0-4" Spread, 3-3/8" Reach
0-6" Spread, 3-1/4" Reach
0-8" Spread, 5" Reach
0-12" Spread, 10" Reach

Bearing Separators
1/8" to 2-1/4" Capacity
3/8" to 4-1/4" Capacity

Press-Puller
2" to 7-3/4" Spread, 6-3/4" Reach

Internal Puller
1-1/2" to 6" Spread, 4" Reach

Other Pullers & Accessories
71-652 Harmonic Balancer Puller
71-679 Slide Hammer Set

SAFETY NOTICE

BE SURE PULLER IS ALIGNED AND JAWS ARE FULLY SEATED ON PART TO BE PULLED. NEVER USE CHEATER BAR TO EXTEND WRENCHES.

KEEP FORCING SCREW AND HUB THREADS CLEAN AND OILED.

Always wear eye protection when near tools in

Heavy Duty Puller Set 71-375

Contents: 19 Pullers and Puller Accessories in cardboard box.

Approximate weight, 195.80 lbs.

Includes:

2-Arm/3-Arm Conv. Puller
0 to 7" Spread, 3-1/4" Reach

2-Arm Pullers
0 to 8" Spread, 5" Reach
0 to 12" Spread, 10" Reach

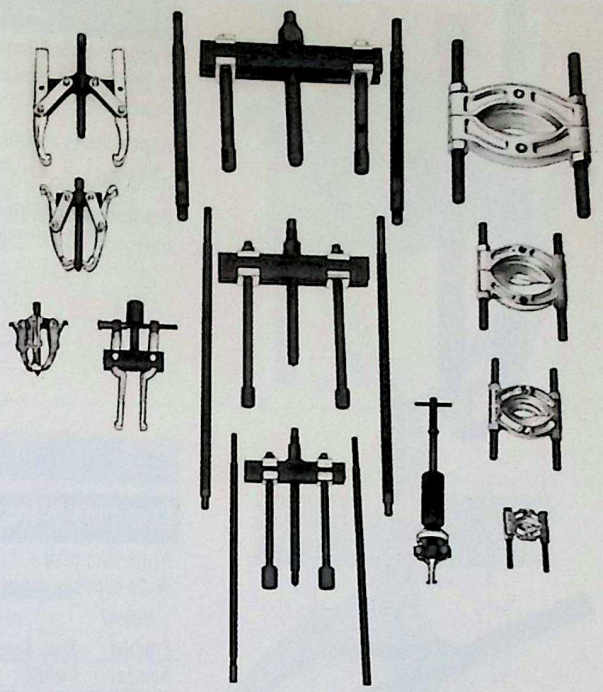
Bearing Separators
1/8" to 2-1/4" Capacity
3/8" to 4-1/4" Capacity
1/2" to 5-1/4" Capacity
3/4" to 13-3/8" Capacity

Internal Attachment
1-1/2" to 6" Spread, 4" Reach

Pilot Bearing Puller
0-3" Spread, 1-11/16" Reach

Press-Pullers
2" to 7-3/4" Spread, 6-3/4" Reach
3-1/2" to 12-3/4" Spread, 9-1/2" Reach
8-1/2" to 16-3/4" Spread, 8" Reach

Extra Press-Puller Legs
15-3/4" Legs for 71-572
22-1/2" Legs for 71-574
18" Legs for 71-576

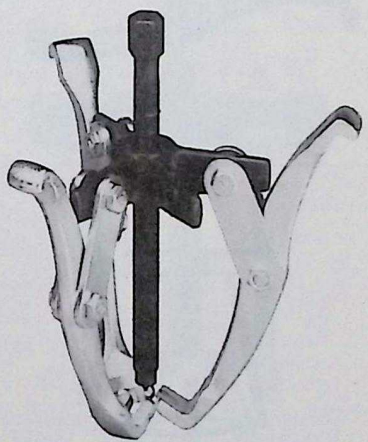


2-Arm/3-Arm Convertible Pullers

Arms zinc plated, hub and forcing screw black finish. These versatile pullers feature a special hub which permits repositioning of arms for 2 or 3 arm applications.

Product Number	Max. Spread, Inches	Max. Reach, Inches	Length & Diameter of Forcing Screw, Inches	Capacity, Lbs.	Weight, Lbs.
71-400	0 to 4	3-3/8	3/8 x 4-7/8	4,000	1.93
71-402*	0 to 7	3-1/4	5/8 x 6	10,000	2.96
71-404	0 to 7	5-1/2	5/8 x 6	10,000	3.64
71-406*	0 to 10-1/2	5	5/8 x 9	14,000	6.59
71-408	0 to 11	8-3/4	5/8 x 9	14,000	8.33
71-410	0 to 4	10-1/4	3/4 x 12	26,000	16.70
71-412	0 to 15-1/4	15-3/4	3/4 x 12	26,000	19.68

*Has reversible arms. Standard and narrow jaws on 71-402; standard and slotted jaws on 71-406.



2/3 Arm Puller Set 71-421

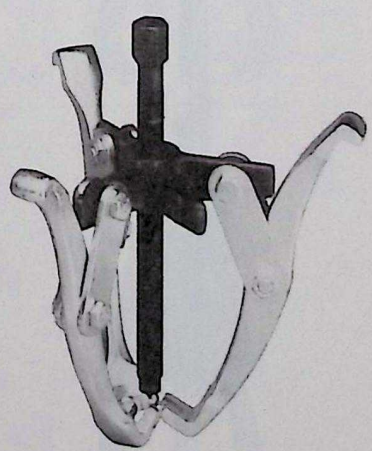
Extra lip on hub permits 2/3 Arm Pullers to convert from the convenience of 2-Arm pulling, to the safety of 3-Arm pulling with one tool. Can combine to create six different 5-Ton Pullers.

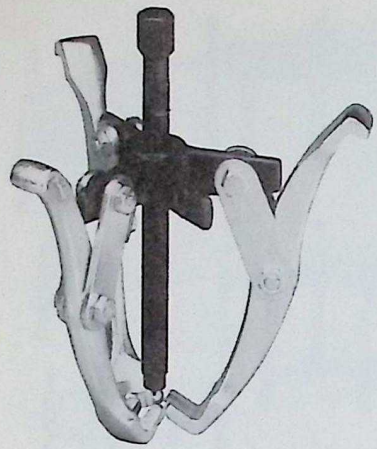
Approximate weight, 4.50 lbs.

Includes:

2/3 Arm Reversible Puller
3-1/4" Reach, 7" Spread

(3) Long Arms
5-1/2" Reach, 7" Spread





2/3 Arm Puller Set 71-422

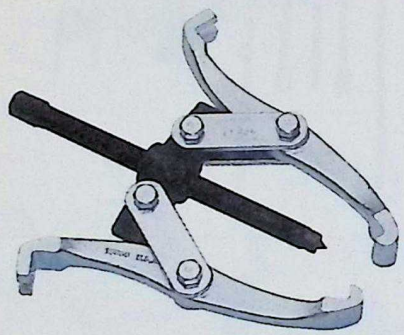
Extra lip on hub permits 2/3 Arm Pullers to convert from the convenience of 2-Arm pulling, to the safety of 3-Arm pulling with one tool. Can combine to create six different 7-Ton Pullers.

Approximate weight, 11.00 lbs.

Includes:

2/3 Arm Reversible Puller
5" Reach, 10-1/2" Spread

(3) Long Arms
8-3/4" Reach, 11" Spread



Standard 2-Arm Pullers

Arms zinc plated, hub and forcing screw black finish. Most commonly-used puller style. Wide capacity range ensures the proper puller for virtually any application.

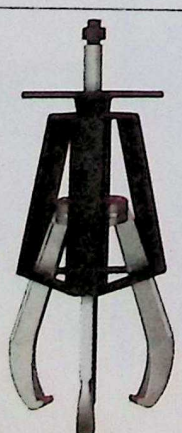
Product Number	Max. Spread, Inches	Max. Reach, Inches	Length & Diameter of Forcing Screw, Inches	Capacity, Lbs.	Weight, Lbs.
71-430	0 to 4	3-3/8	3/8 x 4-7/8	4,000	.83
71-432*	0 to 6	3-1/4	5/8 x 6	10,000	1.79
71-434	0 to 7	5-1/2	5/8 x 6	10,000	2.28
71-436*	0 to 9	5	5/8 x 9	14,000	4.46
71-438	0 to 10	8-3/4	5/8 x 9	14,000	5.48
71-440	0 to 12-1/2	10-1/2	3/4 x 12	26,000	10.71
71-442	0 to 15-1/2	15-1/2	3/4 x 12	26,000	13.03

*Has reversible arms. Standard and narrow jaws on 71-432; standard and slotted jaws on 71-436.

2-Arm Posilock Pullers

Posilock Pullers feature self-aligning jaws. Set up is quick, accurate, and easy for one person. Turning the T-Handle locks the jaws in place so they can't fall off.

Product Number	Max. Spread Inches	Max. Reach, Inches	Screw Diameter	Capacity, Lbs.	Weight, Lbs.
71-470	1/2 to 5	4	9/16	3,000	2.98
71-472	1/2 to 7	6	5/8	12,000	6.38
71-474	3/4 to 12	8	3/4	24,000	11.00
71-476	1 to 15	10	3/4	28,000	13.38
71-478	2-1/2 to 18	13	1-1/8	50,000	39.00
71-480	3 to 25	16	1-1/4	70,000	60.00



3-Arm Posilock Pullers

Posilock Pullers feature self-aligning jaws. Set up is quick, accurate, and easy for one person. Turning the T-Handle locks the jaws in place so they can't fall off.

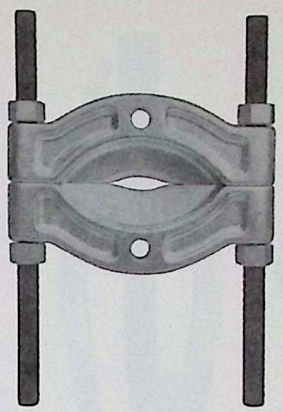
Product Number	Max. Spread Inches	Max. Reach, Inches	Screw Diameter	Capacity, Lbs.	Weight, Lbs.
71-490	1/2 to 5	4	9/16	5,000	3.55
71-492	1/2 to 7	6	5/8	20,000	8.11
71-494	3/4 to 12	8	3/4	34,000	13.00
71-496	1 to 15	10	3/4	40,000	17.03
71-498	2-1/2 to 18	13	1-1/8	60,000	44.00
71-500	3 to 25	16	1-1/4	80,000	68.00

Always wear eye protection when

Bearing Separators, Zinc Plated Jaws, Black Finish Screws

Designed for easy removal of bearings, cone-shape gears and thin-face gears. Edges of these tools are beveled for insertion behind gears, bearings or pulleys where space is not adequate to accept the jaws of a conventional puller. Use with Standard 2-Arm Pullers, Press Pullers or Cross Arm Pullers. Ideal for use with arbor presses.

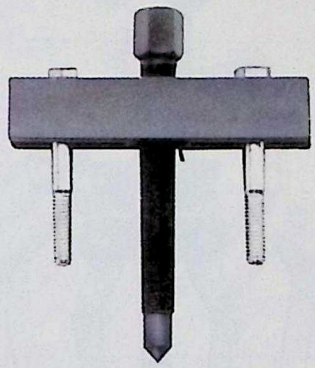
Product Number	Capacity, Inches	Hole Thread Size, Inches	To be used with following Puller styles			Weight, Lbs.
			Standard 2-Arm	Cross Arm	Press Puller	
71-512	1/4 to 7/8	5/16-18	71-430		71-572	.81
71-514	1/8 to 2-1/4	3/8-16	71-432, 71-436	71-552		1.37
71-516	3/8 to 4-5/8	5/8-18	71-436, 71-440		71-572, 71-574	5.56
71-518	1/2 to 5-1/4	5/8-18			71-574	11.04
71-520	1/2 to 8-5/8	5/8-18	71-442		71-574	12.14
71-522	3/4 to 13-3/8	1-14			71-576	39.51



Cross Arm Puller, Black Finish

Due to its slotted bars, this puller features an exceptionally wide range of adjustments when used with any length or thread of cap screw. Can also be teamed with No. 71-514 Bearing Separator for pulling bearings, gears and pulleys.

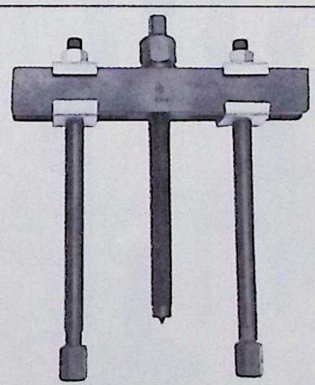
Product Number	Spread Range, Inches	Maximum Reach, Inches	Length & Diameter of Forcing Screw, Inches	Length & Diameter of Cap Screw Inches	Weight, Lbs.
71-552	1-1/2 to 4-1/2	3	5/8-18 x 5	3/8-16 x 3	1.75



Press-Pullers, Black Finish

Designed for use with Bearing Separators for removing pinions, pulleys, gears, wheels, bearings, and sheaves. Threaded adaptors are used with these pullers for removing drilled and tapped parts. One set of legs is furnished but additional legs in various lengths are also available. Various types of adapters for different jobs are available for use with Press-Pullers.

Product Number	Spread Range, Inches	Max. Reach, Inches	Length & Diameter of Forcing Screw, Inches	Leg Thread Size, Inches	Length of Legs, Inches	Weight, Lbs.
71-572	2 to 7-3/4	6-3/4	3/4-16 x 12	5/8-18	5/8 x 6-3/4	7.71
71-574	3-1/2 to 12-3/4	9-1/2	1-14 x 13	5/8-18	7/8 x 9-1/2	20.52
71-576	7 to 16-3/4	8	1-1/2-12 x 16-1/2	1-14	1 x 8	43.49

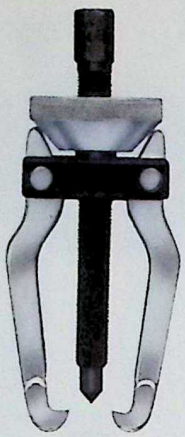


Extra Legs for Press-Pullers, Black Finish

Available in pairs only.

Product Number	Length, inches	Thread Size, Inches		For Puller	Weight, Lbs.
		Top	Bottom		
71-581*	6-3/4	1/2-20	5/8-18	71-572	1.49
71-583	15-3/4	1/2-20	5/8-18	71-572	3.07
71-585	4-1/2	3/4-16	5/8-18	71-574	2.56
71-586*	9-1/2	3/4-16	5/8-18	71-574	4.22
71-587	16-1/2	3/4-16	5/8-18	71-574	6.63
71-588	22-1/2	3/4-16	5/8-18	71-574	8.63
71-591*	8	1-14	1-14	71-576	7.75
71-592	18	1-14	1-14	71-576	14.74
71-593	28	1-14	1-14	71-576	21.60

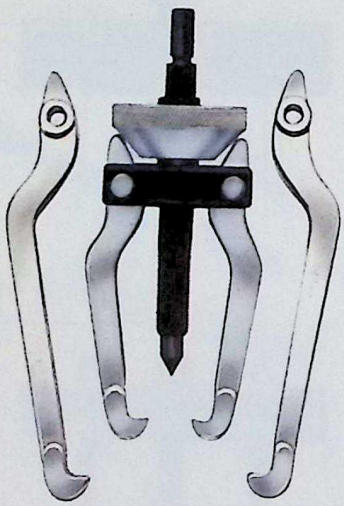
*These legs are standard with complete Press-Puller



Reversible Pullers

These versatile pullers can be used internally for pulling bearing cups, outer races, etc., and then, by quickly reversing the arms and cone nut, be used as convention external pullers. The thin arms make these pullers ideal for removing small gears, bearings and pulleys. Arms and cone zinc plated, hub and forcing screw black finish.

Product Number	No. Jaws	Spread Range, In. Internal	Spread Range, In. External	Reach, Inches	Screw Dia., In.	Weight, Lbs.
71-612	2	1 to 5-1/4	0 to 5-1/4	3-3/4	5/8	2.28
71-614	3	1-1/8 to 5-1/4	0 to 5-1/4	3-3/4	5/8	2.62
71-622	2	4-5/16 to 7-1/8	0 to 6-1/8	6	5/8	2.53
71-624	3	4-5/16 to 7-1/8	0 to 6-1/8	6	5/8	3.01



Reversible Puller Set 71-627

Includes No. 71-612 Puller plus a pair of 6" long arms.

Approximate weight, 3.07 lbs.

Reversible Puller Set 71-629

Includes No. 71-614 Puller plus three 6" long arms and a 2-Arm hub.

Approximate weight, 4.16 lbs.

SAFETY NOTICE

DO NOT HEAT OR GRIND PULLER PARTS. THIS CAUSES LOSS OF STRENGTH, AND VOIDS WARRANTIES.

WHEN POSSIBLE, USE A LARGER SIZED PULLER TO AVOID OVERLOADING.

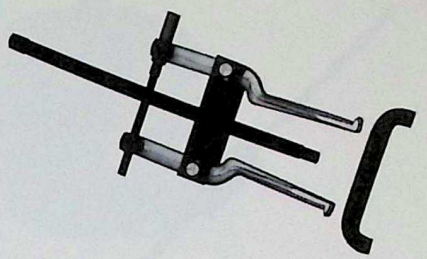
Internal Puller Attachment

Arms zinc plated, all other parts black finish.

Designed for use with Press-Pullers and Slide Hammer Pullers, this attachment removes bearing cups, sleeves, oil seals, bushings, and outer races from blind holes. The 3-hole adjustment hub permits a wide range of spread adjustment.

Product Number	Range, Inches	Spread Reach, Inches	Jaw Width, Inches	Use with Puller	Weight, Lbs.
71-645*	1-1/2 to 6	4	1-1/8	—	6.54

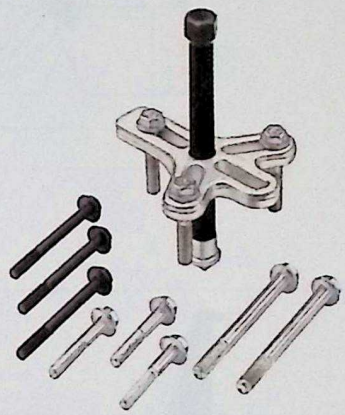
*Complete Tool. Includes forcing screw and bridge, and can be used independently of Press-Puller or Slide Hammer Puller.



Harmonic Balancer Puller

Designed for use in close quarters. Short, heavy duty forcing screw with special adapter tip makes tool perfect for pulling harmonic balancers, timing gears, etc. Hub is slotted for use with parts having either two or three tapped holes.

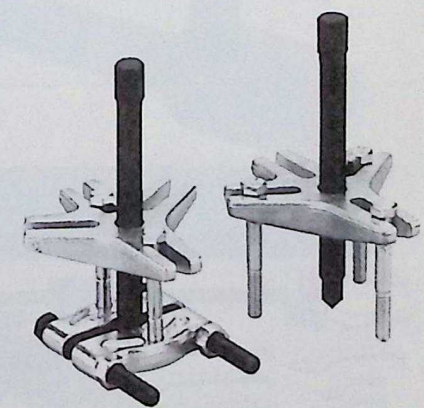
Product Number	Spread Range, Inches	Includes Cap Screws Size	Weight, Lbs.
71-651	1-3/8 to 3-9/16	(3) 5/16-18 x 2, (3) 3/8-24 x 2, (2) 3/8-16 x 4, (3) 8mm-1.28 x 80 mm	2.50



Heavy Duty Harmonic Balancer Puller

Special ribbed, reinforced hub is drop forged alloy steel. Provides added strength and resilience when pulling parts with two or three tapped holes. Hub is chrome plated; forcing screw is black finish.

Product Number	Spread Range, Inches	Includes Cap Screws Size	Weight, Lbs.
71-652	1-3/8 to 3-9/16	(3) 3/8-16 x 3 (3) 5/16-18 x 3	3.47

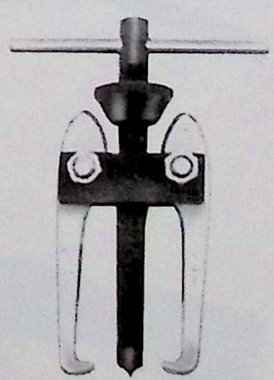


Service Kit Puller

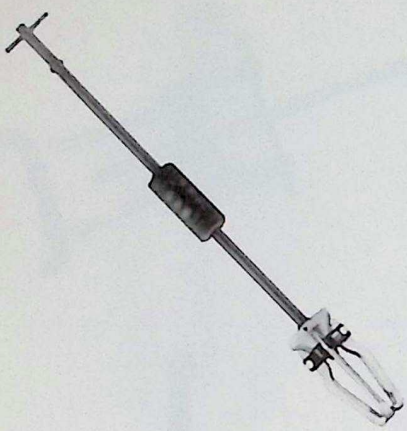
Arms zinc plated, hub and forcing screw black finish.

Small, light-duty puller is designed to be included in service kits. Handy for pulling motor pulleys, small sheaves and gears.

Product Number	Max. Spread, Inches	Max. Reach, Inches	Length & Diameter of Forcing Screw, Inches	Weight Lbs.
71-654	0 to 3-1/2	2-3/8	1/2 x 5-1/2	1.07



Specification Guidelines, see Appendix A.



Slide Hammer and Pilot Bearing Pullers

Versatile tools whose design facilitates removal of hard-to-reach parts. Extra-long rods enable operator to work from an uncramped position. Slide Hammer Pullers may be used for either internal or external applications by reversing arms and cone nut.

Product Number	Description	Spread Range, Inches External	Spread Range, Inches Internal	Reach, Inches	Rod Length, Inches	Weight, Lbs.
71-662	2-Jaw, 2-1/2 Lb.	0 to 5-1/4	1 to 5-1/4	3-3/4	24	6.64
71-664	3-Jaw, 2-1/2 Lb.	0 to 5-1/4	1-1/8 to 5-1/4	3-3/4	24	6.99
71-666	2 or 3-Jaw, 2-1/2 Lb.*	0 to 5-1/4	1-1/8 to 5-1/4	3-3/4	24	7.20
71-668	3 Jaw, 5 Lb.	0 to 5-1/4	1-1/8 to 5-1/4	3-3/4	24	9.56
71-672	2 Jaw, 2-1/2 Lb.		1/2 to 1-9/16	1-5/16	12	4.54
71-674	2 Jaw, 2-1/2 Lb.		5/8 to 3	1-11/16	12	5.17

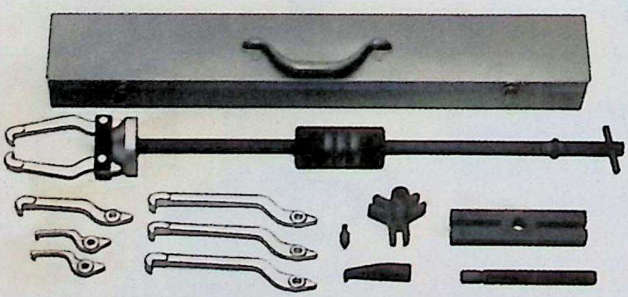
*Includes extra 2-Jaw Hub, so tool can be used as 2-Jaw or 3-Jaw Puller.

Slide Hammer with Rod Only

Product Number	Description
71-660	2-1/2 Lb. Hammer with 5/8-18 threaded rod
71-661	5 Lb. Hammer with 5/8-18 threaded rod

Slide Hammer Accessory

Product Number	Description	Weight, Lbs.
71-677	Single Internal Jaw Attachment	.48



Slide Hammer Puller Set 71-679

Contents: 19 assorted Puller components and accessories in Steel Case. Includes those parts necessary to assemble up to 20 different Slide Hammer and Forcing Screw Pullers.
Approximate weight, 15.00 lbs.

Includes:

- 71-664 Slide Hammer Puller
- 71-677 Single Jaw Attachment
- 2-Arm Hub
- Cross Arm Bar
- Forcing Screw with Standard Tip
- (3) 6" lg. Reversible Arms
- (2) Extra Slender Internal Arms

Slide Hammer Puller Set 71-680

Same tools as 71-679. Packaged in cardboard box without Steel Case.
Approximate weight, 10.88 lbs.

Master Slide Hammer Puller Set 71-681

Contents: 25 assorted Puller components and accessories in cardboard box. Includes those parts necessary for automotive dent pulling and removing rear axles.
Approximate weight, 19.09 lbs.

Includes:

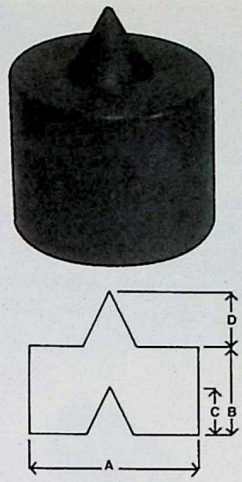
- 71-664 Slide Hammer Puller
- 71-677 Single Jaw Attachment
- 2-Arm Hub
- Cross Arm Bar
- Forcing Screw with Standard Tip
- (3) 6" lg. Reversible Arms
- (2) Extra Slender Internal Arms
- Dent Puller
- 5 Lb. Hammer
- Short Slide Hammer Rod
- Axle Yoke

Always wear eye protection when

Shaft Protectors, Black Finish

Designed to protect shaft centers from distortion when exceptionally high pressures are applied. Shaft Protectors are inserted between end of puller screw and shaft.

Product Number	Dimensions, Inches A	B	C (60°)	D (60°)	Weight Lbs.
71-682	1-1/2	3/4	3/8	7/16	.33
71-684	1-1/4	3/4	3/8	3/8	.23
71-686	1	3/4	3/8	5/16	.14
71-688	3/4	3/4	1/4	1/4	.06
71-690	5/8	5/8	1/4	1/4	.04
71-692	5/8	5/8	3/16	3/16	.03



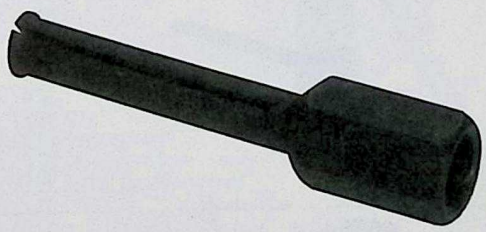
Shaft Protector Set 71-698

Contents: One each of 6 Shaft Protectors. In cardboard box. Approximate weight, .95 lbs.

Collets for Blind Hole Pullers

These attachments are for internal pulling from Blind Holes: and other hard to reach places. Use with slide hammer, or bridge and forcing screw, to grip objects to be pulled.

Product Number	Max. Spread, Inches
71-901	5/16 to 3/8
71-902	3/8 to 7/16
71-903	7/16 to 1/2
71-904	1/2 to 5/8
71-905	5/8 to 3/4
71-906	3/4 to 7/8
71-907	7/8 to 1
71-908	1 to 1-1/4
71-909	1-1/4 to 1-1/2
71-910	1-1/2 to 1-3/4



Actuator Pins for Blind Hole Pullers

These attachments are used in conjunction with collets for pulling bearings, busings, races and other parts from blind holes quickly and easily.

Product Number	Diameter, Inches	Use With
71-917	1/8	71-901, 71-902
71-918	3/16	71-903, 71-907
71-919	1/2	71-908, 71-914

Collets with Pins for Blind Hole Pullers

Product Number	Min. Spread, Inches	Reach, Inches	Weight Lbs.
71-921	5/16	1-3/4	0.15
71-922	3/8	1-3/4	0.16
71-923	7/16	2	0.23
71-924	1/2	2	0.26
71-925	5/8	2-1/2	0.30
71-926	3/4	2-1/2	0.40
71-927	7/8	2-1/2	0.53
71-928	1	4	0.92
71-929	1-1/4	4	1.53
71-930	1-1/2	4	1.87

...lication Guidelines, see Appendix A.

Master Blind Hole Puller Set 71-950

Use to remove bearings, bushings, races, and other parts from blind holes quickly and easily. The collet is inserted into the blind hole and expanded by turning the actuator pin. Flanged lips on the expanded collet grip the object to be pulled.

Furnished in a Steel Case. Approximate weight, 21.00 lbs.

Includes:

Collets

Product Number	Spread, Inches
71-901	5/16 to 3/8
71-902	3/8 to 7/16
71-903	7/16 to 1/2
71-904	1/2 to 5/8
71-905	5/8 to 3/4
71-906	3/4 to 7/8
71-907	7/8 to 1
71-908	1 to 1-1/4
71-909	1-1/4 to 1-1/2
71-910	1-1/2 to 1-3/4

Actuator Pins

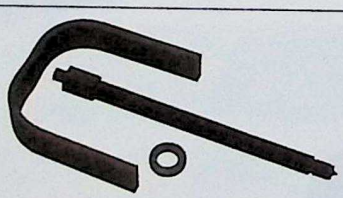
Product Number	Diameter Inches
71-917	1/8
71-918	3/16
71-919	1/2

Accessories

Product Number	Description
71-660	2-1/2 Lb. Hammer with 5/8-18 threaded rod
71-957	Bridge Attachment

Conveyor Bearing Puller

Product Number	Weight, Lbs.
71-955	1.71



Bridge Attachment

Product Number	Weight, Lbs.
71-957	4.08

Pipe Wrenches

Scientifically designed to provide maximum strength and safety while weight is minimized. Handles are made from pearlitic malleable alloy. Hook jaw is drop forged while insert jaw is replaceable. Hook jaw calibrations, spring suspension, and easily-spinning adjusting nut ensure quick adjustment, and instant gripping and release of pipe. Housing and handle finished in bright red baked-on enamel.

Product Number	Length, Inches	Capacity, Pipe size, Inches	Weight, Lbs.
73-006	6	1/8 to 3/4	.45
73-008	8	1/8 to 1	.91
73-010	10	71/8 to 1-1/2	1.80
73-012	12	1/8 to 2	2.83
73-014	14	1/4 to 2	3.70
73-018	18	1/4 to 2-1/2	6.14
73-024	24	1/4 to 3	9.64
73-036	36	1/4 to 4-1/2	19.50
73-048	48	1 to 6	34.01

Always wear eye protection

Chain Pipe Tongs

All components of Armstrong Chain Tongs are chosen to provide a durable, long-lasting tool, strong beyond need, and with the professional appearance experienced users expect from their pipe tools.

JAWS

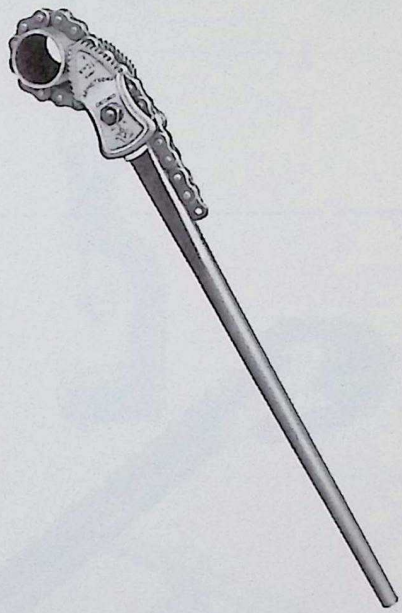
Drop forged from carbon steel, chain tong jaws are carefully milled and heat treated. They are tested for strength and wearability and finished in a bright red baked-on enamel. Pipe capacity, in both inches and millimeters, is forged into sides of each jaw.

HANDLES

Only selected spring steel is used to provide the correct degree of stiffness without risking brittleness. After forging, handles are grit blasted and oil coated.

CHAIN

Flat link chains, the key to any top quality tong, are manufactured in our own plant. After careful heat treating, they are proof-tested under quality control. Each chain is shipped with a lead seal indicating it has been tested to 2/3 of its cataloged breaking strain. Special chains, longer than standard, are available on special order.



Tongs with Single End Jaws

The favorite style for general, all-around use, these tongs feature an extra large hardened steel bolt. The connecting link is drop forged from alloy steel.

Product Number	For Pipe Size, Inches	mm	Tool Length, Inches	Chain Length, Inches	Breaking Strain, Lbs.	Weight, Lbs.
73-201	1/8 to 3/4	10 to 26	14	9-1/2	5,070	2.69
73-205	1/4 to 2-1/2	13 to 73	27	17-1/2	13,800	9.46
73-207	3/4 to 4	26 to 114	37	22-1/2	17,600	16.45
73-209	1 to 6	33 to 168	43	32	20,100	23.00
73-211	1-1/2 to 8	48 to 219	51	40-1/2	22,000	31.50

Tongs with Double End Jaws

The double end jaws make this style tong the most economical in our line. If teeth become burred or dull from long use, simply reverse them end for end. This feature doubles the life of the tool.

Product Number	For Pipe Size, Inches	mm	Tool Length, Inches	Chain Length, Inches	Breaking Strain, Lbs.	Weight, Lbs.
73-229	1/4 to 2-1/2	13 to 73	27	17-1/2	13,800	9.29
73-231	3/4 to 4	26 to 114	37	22-1/2	17,600	17.28
73-233	1 to 6	33 to 168	43	32	20,100	24.00
73-235	1-1/2 to 8	48 to 219	50-1/2	40-1/2	22,000	32.00
73-237	2 to 12	60 to 323	64-1/2	55-1/2	31,000	56.00

...tion Guidelines, see Appendix A.

NEW!

"Ideal" Pipe, Fitting and Flange Tong

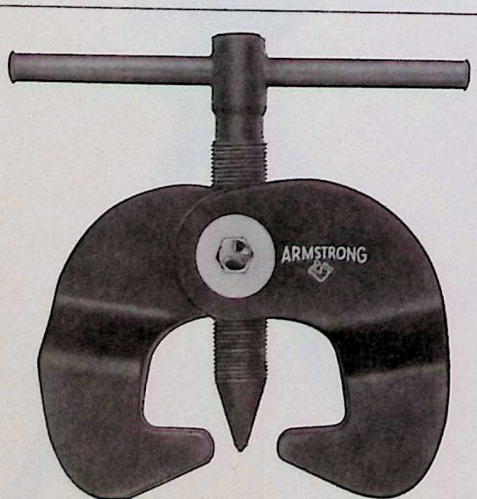
Designed with straight teeth for fittings and flanges. Handy for maintenance, installation and removal of high pressure pipe and heavy duty plumbing applications.

Product Number	Capacity, Inches Pipe	Tool Length, Inches	Chain Length, Inches	Breaking Strain, Lbs.	Weight, Lbs.
73-269	1 to 5	38	22-1/2	17,600	18.57
73-270	1 to 12	38	55	17,600	24.35
73-272	1 to 18	38	75	17,600	27.90
73-274	1 to 24	38	95	17,600	31.46
73-276	1 to 30	38	115	17,600	35.01

Chain Wrenches

An economical tool for use where working area is restricted, or when the high breaking strains of chain tongs are unnecessary. Successive "bites" can be taken without removing tool from the pipe. Handles are chrome plated.

Product Number	For Pipe Size, Inches	Tool Length, Inches	Chain Length, Inches	Weight, Lbs.
73-295	3/8 to 4	11	15-1/2	1.45
73-299	3 to 6	20	23-1/2	4.80



Flange Jacks

For separating flanges without disassembly of pipe lines when gaskets are to be replaced. Flange jacks exert tremendous pressure smoothly and evenly, with no shock along the pipe line. Flanges are separated quickly and held in perfect alignment. Flange jacks must be used in pairs for even distribution of pressure.

Product Number	Capacity, Standard Raised Face Flanges, Inches				Weight Per Pair, Lbs.
	125 Lb. Cast Iron	150 Lb. Steel	250 Lb. Cast Iron	300 Lb. Steel	
73-305	2 to 20	2 to 20	1 to 12	3/4 to 12	13.0
73-310	16 to 48	18 to 24	12 to 30	12 to 24	45.0

Always wear eye protection

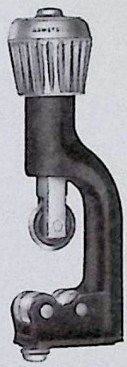
Chain Pipe Vises

Bases and handles are drop forged carbon steel. All jaws are drop forged carbon steel and, on 76-179, and 76-181, jaws are two-piece construction to grip small pipe more firmly and solidly to help prevent bending. Flat link chains, furnished with all chain pipe vises, are manufactured in our own plant. After careful heat treating, they are proof-tested under quality control. Bases, handles and jaws are finished in bright red baked-on enamel; chains are black finish.

Product Number	For Pipe Size, Inches	Weight, Lbs.
76-179	1/8 to 2-1/2	4.26
76-181	1/4 to 4	10.50
76-183	1/4 to 6	19.37
76-185	1/4 to 8	31.27

Tube Cutter

Product Number	For Tubing Size, Inches	Weight, Lbs.
76-301	1/8 to 1-1/8	.59



Tube Cutter Replacement Wheel

Product Number	Weight, Lbs.
76-309	.01

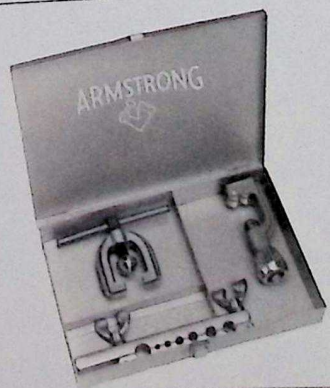
Tube Flaring Tool, Carbon Steel, Chrome Plated

Designed for flaring brass, aluminum and soft copper tubing. Drop forged hook-on yoke is self-centering. Positive clamping action of cold rolled steel flaring bar prevents tubing slippage. Hardened cone produces 45° S.A.E. flares.

Product Number	For Tubing Sizes (O.D.), Inches	Weight, Lbs.
76-337	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8	1.64

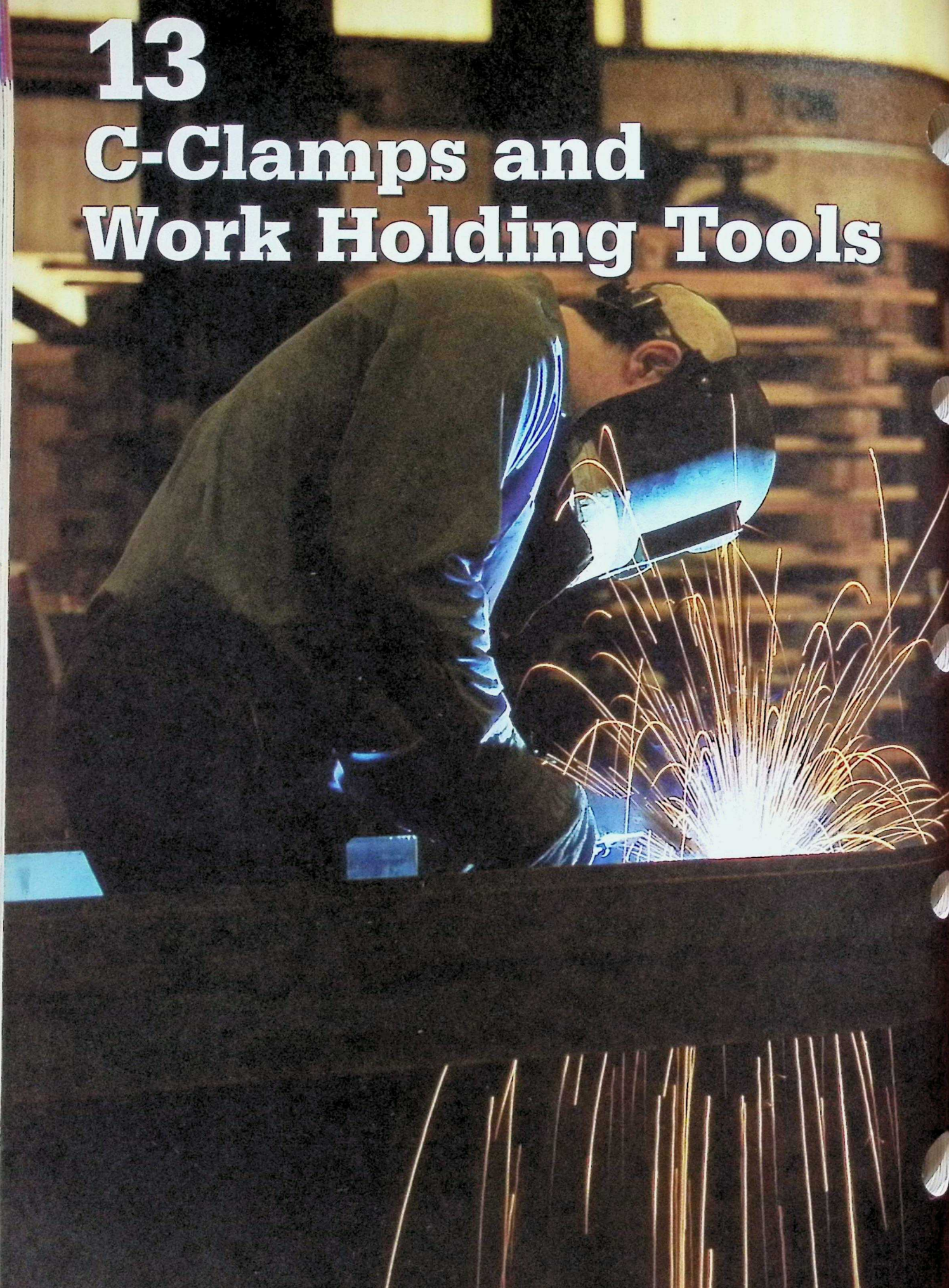
Tubing Tool Set 76-343

Contents: Flaring tool to flare 7 tubing sizes 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", and 5/8". Also includes 76-301 Tube Cutter. In steel case. Approximate weight, 5.19 lbs.



...tion Guidelines, see Appendix A.

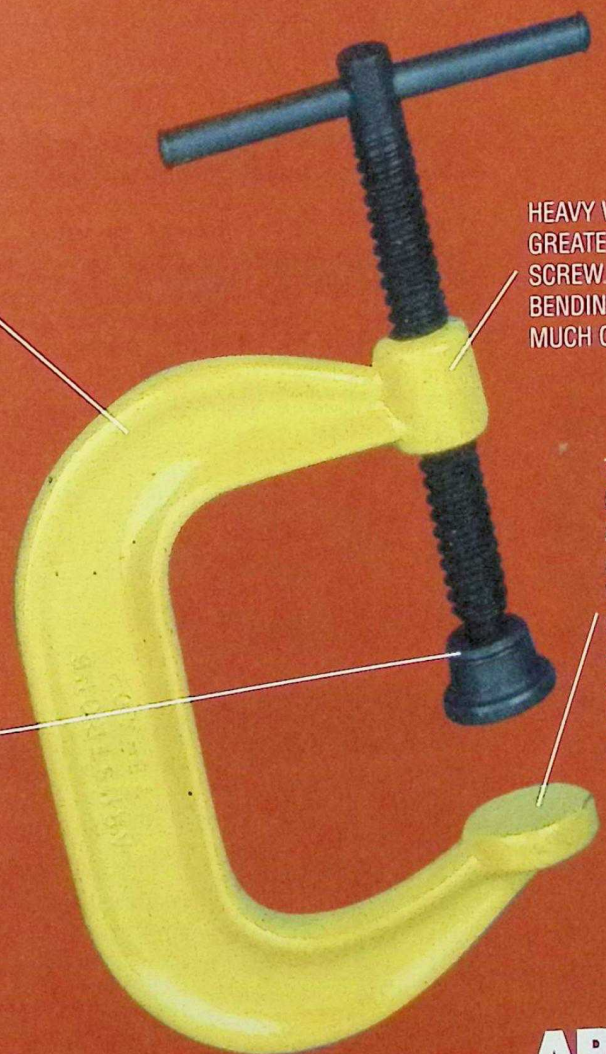
13
C-Clamps and Work Holding Tools



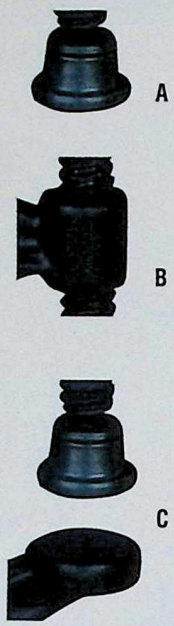
C-Clamps and Work Holding Tools

When your requirements call for clamps and work holding tools, specify Armstrong, the most accepted name in the business. Every tool in our broad line is designed and manufactured to handle your toughest clamping jobs, with screws and frames that have been hardened to provide great strength and durability.

- General Service C-Clamps
- Heavy Duty C-Clamps
- Square Throat C-Clamps
- Deep Throat C-Clamps
- High-Visibility Deep Throat C-Clamps
- T-Slot Clamps
- Strap Clamps
- T-Bolts, Nuts, Washers
- Planer Jacks



ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS



Armstrong C-Clamps

When your requirements call for clamps, specify Armstrong—the most accepted name in the business. When you see Armstrong forged into the frame, feel confident—your clamp has been manufactured from the best materials. Screws and frames are hardened to provide great strength and durability. You can depend on it.

SPECIAL FEATURES:

A—BALL JOINT SWIVEL PAD

An exclusive with Armstrong, this patented feature assures the most secure system of locking pad to screw. Lip of pad is undercut. When ball of screw is inserted into pad and lip is forced down, a solid steel wall is formed inside the pad cavity. It completely encircles the ball insuring a permanent attachment but retaining plenty of swivel.

B—HEAVY WALLED HUB

Offers greater support for screw. Helps to prevent bending as the hub bears much of the stress. Makes for a longer lasting clamp.

C—ANVIL

Extra large anvil is carefully broached to assure a flat surface and proper alignment with screw. Provides greater gripping area for big work, yet permits pin-point clamping of small or uneven pieces.

PACKAGING

All Armstrong drop forged clamps, with exception of Heavy Duty pattern, are individually boxed.

Heavy Duty Pattern

The strongest C-Clamp made. Square-head screw has hardened point. Screw does not include a handle—it must be tightened with a wrench. Extra long hub helps prevent springing even under great stress.

Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-000	13/16	0	5/8	3/8-16	2-1/4	2,800	.38
78-010	1-5/16	0	15/16	7/16-14	2-13/16	5,600	.74
78-015	1-3/4	0	1-3/8	5/8-11	4-3/16	8,750	1.91
78-020	2-3/8	1/2	1-9/16	3/4-10	4-1/4	12,500	3.28
78-030	3-5/16	5/8	2	7/8-9	5-3/4	16,250	5.83
78-040	4-5/8	1	2-7/16	1-8	7-1/16	20,000	10.10
78-050	5-3/8	1-1/4	2-7/8	1-8	7-3/4	23,800	14.08
78-060	6-5/8	2-1/2	3-1/4	1-1/8-7	8-3/16	27,500	18.92
78-080	8-1/4	2-1/4	3	1-1/4-7	10-5/16	31,250	27.50
78-090	10-3/8	4-1/4	3-1/8	1-1/4-7	10-5/16	35,000	30.59
78-092	12-1/2	6-3/8	3-1/2	1-1/4-7	10-5/16	40,000	37.22

Heavy Duty Pattern, with Full-Length Screw

Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-021	2-3/8	0	1-9/16	3/4-10	5	12,500	3.28
78-031	3-5/16	0	2	7/8-9	6-11/16	16,250	5.83
78-041	4-5/8	0	2-7/16	1-8	8-11/16	20,000	10.10
78-051	5-3/8	0	2-7/8	1-8	9-13/16	23,800	14.08
78-061	6-5/8	0	3-1/4	1-1/8-7	11-3/8	27,500	18.92
78-081	8-1/4	0	3	1-1/4-7	13-9/16	31,250	27.50
78-091	10-3/8	0	3-1/8	1-1/4-7	15-9/16	35,000	30.59
78-093	12-1/2	0	3-1/2	1-1/4-7	15-3/8	40,000	37.22

Always wear eye protection

General Service Pattern

Designed for use in the many applications which don't require the throat depth of our Square or Deep Throat pattern, or the extreme strength of our Heavy Duty Pattern.

Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-102	2	0	1-3/8	1/2-13	4-7/8	7,500	1.26
78-103	3	0	1-3/4	5/8-11	6-3/8	8,750	2.60
78-104	4	0	2	3/4-10	7-7/8	10,000	4.13
78-106	6	2	2-1/4	3/4-10	7-7/8	11,250	5.90
78-108	8	4	2-1/4	3/4-10	7-7/8	12,500	6.90
78-110	10	6	2-3/8	3/4-10	7-7/8	13,750	8.00
78-112	12	8	2-5/8	7/8-9	10-1/4	15,000	11.61
78-115	15	10	2-3/4	7/8-9	10-1/4	16,250	14.95
78-118	18	13	2-7/8	7/8-9	10-1/4	17,500	18.21

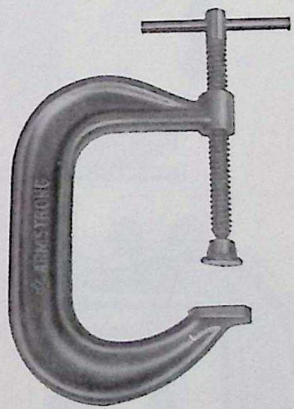
General Service Pattern, with Full-Length Screw

Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-107	6	0	2-1/4	3/4-10	9-5/8	11,250	5.90
78-109	8	0	2-1/4	3/4-10	11-11/16	12,500	6.90
78-111	10	0	2-3/8	3/4-10	13-9/16	13,750	8.00
78-113	12	0	2-5/8	7/8-9	16-1/4	15,000	11.61
78-116	15	0	2-3/4	7/8-9	19-1/4	16,250	14.95
78-119	18	0	2-7/8	7/8-9	22-1/4	17,500	18.21

Square Throat Pattern, Black Finish

Designed for those jobs where a super deep throat is required. Square throat clamps offer up to 89% more throat depth than other patterns, but embody all the strength and durability inherent in a drop forged C-clamp.

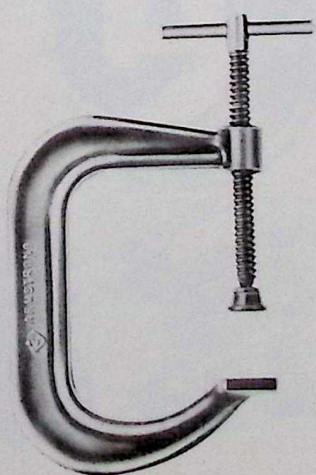
Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-303	3	0	3-1/2	1/2-13	4-7/8	3,500	2.52
78-304	4	0	4-1/2	3/4-6	7-5/8	4,100	4.49
78-306	6	0	6-1/2	3/4-6	9-7/8	5,400	8.05
78-308	8	0	8-1/2	3/4-6	12-3/8	5,900	13.11



Square Throat Pattern, Zinc Plated

Designed for those jobs where a super deep throat is required. Square throat clamps offer up to 89% more throat depth than other patterns, but embody all the strength and durability inherent in a drop forged C-clamp. Features spatter resisting zinc plate for use in welding.

Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-333	3	0	3-1/2	1/2-13	4-7/8	3,500	2.52
78-334	4	0	4-1/2	3/4-6	7-5/8	4,100	4.49
78-336	6	0	6-1/2	3/4-6	9-7/8	5,400	8.05
78-338	8	0	8-1/2	3/4-6	12-3/8	5,900	13.11



Application Guidelines, see Appendix A.

Deep Throat Pattern

Our most popular and versatile pattern. Provides all the strength of our Square Throat Pattern and greater throat depth than our General Service Pattern. Frame is drop forged Carbon Steel; all other parts are machined from Carbon Steel. Parco-Lubrite Finish.

"BULK-PAKS"

78-401 through 78-413 and 78-601 through 78-642 are available in "BULK-PAKS"-master cartons of 10, 25 or 50 C-Clamps packed in bulk without individual boxes-at a 10% cost savings. See current price sheet.

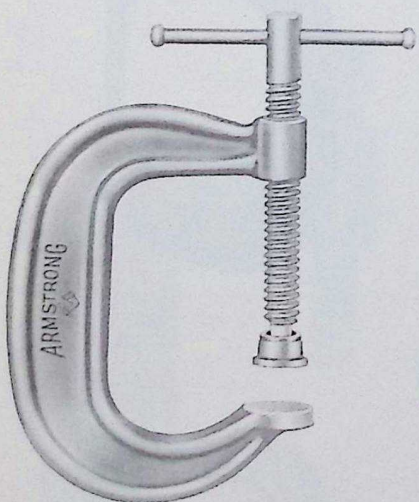
Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-401	1-1/2	0	1-3/8	3/8-16	3-1/4	1,400	.37
78-402	2	0	2	1/2-8	4-3/4	3,300	1.25
78-403	3	0	2-3/8	1/2-8	5-3/4	3,500	2.04
78-404	4	0	2-3/4	3/4-6	7-5/8	4,100	2.96
78-406	6	0	3-5/8	3/4-6	9-7/8	5,400	4.82
78-408	8	0	4-1/2	3/4-6	12-3/8	5,900	6.81
78-410	10	3	5-3/8	3/4-6	12-3/8	6,200	9.86
78-412	12	4	5-3/4	7/8-6	13-1/2	9,300	12.69

Deep Throat Pattern, with Full-Length Screw

Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-411	10	0	5-3/8	3/4-6	14-1/2	6,200	9.86
78-413	12	0	5-3/4	7/8-6	16-1/2	9,300	12.69

Deep Throat Pattern, Zinc Plated

Design and materials are exactly the same as Parco-lubrite finish. However, all parts of these clamps are zinc plated to resist the adhesion of welding spatter.



Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-431	1-1/2	0	1-3/8	3/8-16	3-1/4	1,400	.37
78-432	2	0	2	1/2-8	4-3/4	3,300	1.23
78-433	3	0	2-3/8	1/2-8	5-3/4	3,500	2.11
78-434	4	0	2-3/4	3/4-6	7-5/8	4,100	2.89
78-436	6	0	3-5/8	3/4-6	9-7/8	5,400	4.83
78-438	8	0	4-1/2	3/4-6	12-3/8	5,900	6.98
78-440	10	3	5-3/8	3/4-6	12-3/8	6,200	9.66
78-442	12	4	5-3/4	7/8-6	13-1/2	9,300	12.85

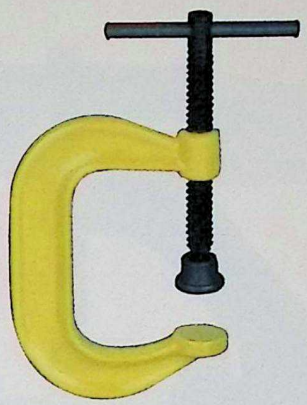
Deep Throat Pattern, Zinc Plated with Full-Length Screw

Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-441	10	0	5-3/8	3/4-6	14-1/2	6,200	9.66
78-443	12	0	5-3/4	7/8-6	16-1/2	9,300	12.85

Always wear eye protection

Deep Throat Pattern, High Visibility Finish, Safety Yellow

Same in all respects-except for finish-as other Deep Throat C-Clamps. However, High Visibility Clamp frames are finished in your choice of "Safety Yellow" or "Safety Orange" high-gloss baked-on enamel. Easy to see; hard to lose or misplace. High Visibility C-Clamps are available either individually boxed or in money-saving "BULK-PAKS". Screws and handles are black finish. Furnished with standard screws only.



Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-601	1-1/2	0	1-3/8	3/8-16	3-1/4	1,400	.37
78-602	2	0	2	1/2-8	4-3/4	3,300	1.25
78-603	3	0	2-3/8	1/2-8	5-3/4	3,500	2.04
78-604	4	0	2-3/4	3/4-6	7-5/8	4,100	2.96
78-606	6	0	3-5/8	3/4-6	9-7/8	5,400	4.82
78-608	8	0	4-1/2	3/4-6	12-3/8	5,900	6.81
78-610	10	3	5-3/8	3/4-6	12-3/8	6,200	9.86
78-612	12	4	5-3/4	7/8-6	13-1/2	9,300	12.69

Deep Throat Pattern, High Visibility Finish, Safety Orange

Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, In.	Thread Size	Length of Screw	Min. Proof Test, Lbs.	Weight, Lbs.
78-631	1-1/2	0	1-3/8	3/8-16	3-1/4	1,400	.37
78-632	2	0	2	1/2-8	4-3/4	3,300	1.25
78-633	3	0	2-3/8	1/2-8	5-3/4	3,500	2.04
78-634	4	0	2-3/4	3/4-6	7-5/8	4,100	2.96
78-636	6	0	3-5/8	3/4-6	9-7/8	5,400	4.82
78-638	8	0	4-1/2	3/4-6	12-3/8	5,900	6.81
78-640	10	3	5-3/8	3/4-6	12-3/8	6,200	9.86
78-642	12	4	5-3/4	7/8-6	13-1/2	9,300	12.69

Tool Maker's Pattern

Small, light-weight C-Clamps are ideal for pattern making, woodworking and other light duty applications. Both frame and screw are drop forged from Carbon Steel. Square below thumb screw head allows screw to be set up extra tight with a wrench. Parco-Lubrite Finish.

Product Number	Capacity Inches Max.	Capacity Inches Min.	Depth of Throat from Center of Screw, Inches	Dia., of Screw Inches	Weight, Lbs.
78-671	1	0	11/16	5/16	.25
78-672	2	0	13/16	3/8	.46
78-673	3	1	15/16	3/8	.56
78-674	4	1-1/4	1-1/8	7/16	.92

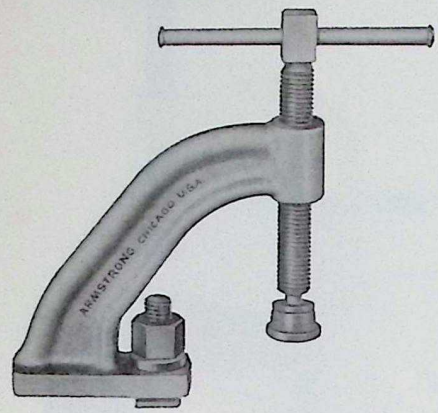
Utility Vises, Malleable or Ductile Iron Castings

Versatile, lower cost vises, designed for medium service. Features include cold-rolled steel screw, swivel base, polished anvil and replaceable jaw faces. Permanent pipe jaws can clamp pipe as small as 1/8". Finished in bright red baked-on enamel.

Product Number	Jaw Width, Inches	Jaw Opening, Inches	Throat Depth, Inches	Pipe Capacity, Inches	Weight, Lbs.
79-204	3-1/2	4	2-3/4	1/8 to 1-1/4	16
73-206	4-1/2	5	3-3/4	1/8 to 2	27
79-208	6-1/2	6	5	1/8 to 2-1/2	38

...tion Guidelines, see Appendix A.

T-Slot Clamps, Drop Forged Carbon Steel



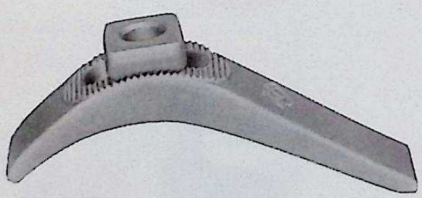
A unique tool for holding down work on all machine tools equipped with slotted tables. Because they are drop forged from Carbon Steel, Armstrong T-Slot Clamps embody strength far beyond that required for normal clamping operations. And should any slight spring ever occur under extreme conditions, the drop forged frame will not take a permanent set. It's therefore safe to predict your Armstrong T-Slot Clamps will outlive the machine tools you intend to use them on. And over the years, they'll save countless hours of operator set-up time, paying for themselves many times over. Screw features Armstrong's patented ball-joint swivel pad-the most secure and permanent system for locking pad to screw. Pad is V-notched to aid clamping of small rounds. T-Slot Clamp body, screw and handle are black finish. Each clamp is furnished with one T-Slot Bolt, Washer, and Hex Nut.

Product Number	Capacity, Inches	T-Slot Bolt Size, Inches	Clamping Depth, Inches	Weight, Lbs.
79-401	0 to 2-1/4	1/2 x 1-1/2	2	2.29
79-403	0 to 3-1/4	5/8 x 2	2-1/4	4.62
79-405	0 to 3-1/4	3/4 x 2-1/2	2-1/4	5.00

Strap Clamps

Designed for holding down work on all machine tools equipped with slotted tables. All Armstrong Strap Clamps are drop forged from Carbon Steel and heat treated. Drop forging imparts the extra strength that allows application of greater clamping force, reducing the possibility of work slippage. Thus, by equipping every machine tool with a complete assortment of Armstrong Strap Clamps, you will decrease the potential for injury to operator, damage to work piece and equipment. And the clamps will quickly pay for themselves in man-hours that would otherwise be wasted by operators searching through scrap bins for make-shift hold-down devices. Natural Finish. T-Slot Bolts, T-Slot Nuts, Hex Nuts and Washers used in conjunction with Strap Clamps are available.

Universal Adjustable Clamps

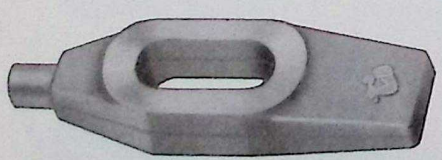


Product Number	Length, Inches	Width, Inches	Adjustment, Inches	Max. T-Slot Bolt Size, Inches	Weight, Lbs.
79-421	5-1/16	1-5/8	2-1/4	5/8	1.22
79-422	8	2-1/8	4	3/4	2.78

Universal Adjustable Clamps, Saddle Only

Product Number	Weight, Lbs.	Use with, Prod. No.
79-424	.20	79-421
79-425	.28	79-422

Finger Clamps

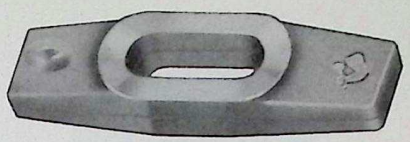


Product Number	Length, Inches	Width, Inches	Thickness, Inches	Slot Size		Finger Size		Weight, Lbs.
				Width, Inches	Length, Inches	Dia., Inches	Length, Inches	
79-446	6	1-3/4	7/8	11/16	1-15/16	5/8	5/8	.91
79-448	8	2-1/8	1-1/8	13/16	2-9/16	3/4	3/4	3.12

Always wear eye protection

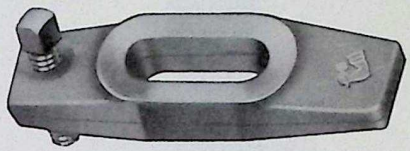
Plain Clamps

Product Number	Length, Inches	Width, Inches	Thickness, Inches	Slot Size Width, Inches	Slot Size Length, Inches	Weight Lbs.
79-454	4	1-5/8	3/4	11/16	1-3/8	.73
79-456	6	1-3/4	7/8	11/16	2-1/16	1.43
79-458	8	2-1/8	1-1/8	13/16	2-13/16	3.62
79-460	10	2-1/2	1-3/8	15/16	3-11/16	6.65



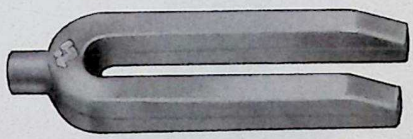
Screw Heel Clamps

Product Number	Length, Inches	Width, Inches	Thickness, Inches	Slot Size Width, Inches	Slot Size Length, Inches	Weight Lbs.
79-455	4	1-5/8	3/4	11/16	1-3/8	1.00
79-457	6	1-3/4	7/8	11/16	2-1/16	1.80
79-459	8	2-1/8	1-1/8	13/16	2-13/16	3.77
79-461	10	2-1/2	1-3/8	15/16	3-11/16	6.89



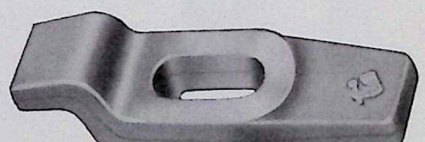
U-Clamps

Product Number	Length, Inches	Width, Inches	Thickness, Inches	Slot Size Width, Inches	Slot Size Length, Inches	Finger Size Dia., Inches	Finger Size Length, Inches	Weight Lbs.
79-464	4	1-3/4	3/4	11/16	3-1/2	9/16	9/16	.93
79-466	6	2	7/8	11/16	5-1/4	11/16	11/16	2.00
79-468	8	2-3/8	1-1/8	13/16	7-3/8	13/16	13/16	3.71
79-469	10	2-3/4	1-1/4	15/16	9	15/16	15/16	5.78
79-470	12	3-1/4	1-3/8	1-1/16	11	1-1/16	1-1/16	9.94



Goose Neck Clamps

Product Number	Length, Inches	Width, Inches	Thickness, Inches	Slot Size Width, Inches	Slot Size Length, Inches	Offset, Inches	Weight, Lbs.
79-474	4	1-3/8	3/4	11/16	15/16	13/16	1.02
79-476	6	1-3/4	7/8	11/16	1-11/16	15/16	1.87
79-478	8	2-1/8	1-1/8	13/16	2-7/16	1-1/8	3.93

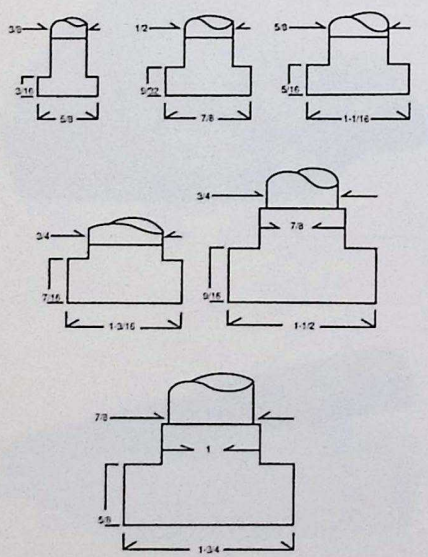


Set-Up Wedges

Product Number	Length, Inches	Width, Inches	Maximum Thickness, Inches	Weight, Lbs.
79-493	3	1	1/4	.11
79-495	5	1	1/2	.31
79-496	6	1-1/4	3/4	.68

T-Slot Bolts, Carbon Steel, Black Finish

Forged T-Slot Bolts are used for setting up work on planers, shapers, milling machines, and other machine tools equipped with T-slot tables. Will fit T-slot without machining and cannot turn or break out of table slots. Available in Unified National Coarse, U.N.C. thread only.



T-Slot Bolts, 3/8" T-Slot Size

Product Number	Weight, Lbs.	Length Under Head, Inches
79-551	.04	1
79-555	.06	1-1/2
79-559	.08	2
79-561	.09	2-1/2
79-565	.11	3
79-569	.14	4

T-Slot Bolts, 3/4" T-Slot Size

Product Number	Weight, Lbs.	Length Under Head, Inches
79-679	.52	2-1/2
79-683	.57	3
79-685	.63	3-1/2
79-687	.68	4
79-689	.75	4-1/2
79-691	.82	5
79-693	.87	5-1/2
79-695	.95	6
79-697	1.04	7
79-699	1.16	8
79-703	1.43	10

T-Slot Bolts, 1/2" T-Slot Size

Product Number	Weight, Lbs.	Length Under Head, Inches
79-587	.15	1-1/2
79-591	.16	2
79-595	.18	2-1/2
79-599	.21	3
79-601	.24	3-1/2
79-603	.26	4
79-605	.29	4-1/2
79-607	.31	5
79-611	.36	6

T-Slot Bolts 7/8" T-Slot Size, 3/4" Diameter Bolt

Product Number	Weight, Lbs.	Length Under Head, Inches
79-727	.89	4
79-729	.96	4-1/2
79-731	1.01	5
79-735	1.14	6
79-739	1.38	8
79-743	1.65	10

T-Slot Bolts, 5/8" T-Slot Size

Product Number	Weight, Lbs.	Length Under Head, Inches
79-627	.24	1-1/2
79-631	.28	2
79-635	.31	2-1/2
79-639	.35	3
79-641	.39	3-1/2
79-643	.45	4
79-645	.48	4-1/2
79-647	.53	5
79-649	.56	5-1/2
79-651	.61	6
79-653	.71	7
79-655	.77	8
79-659	.95	10

T-Slot Bolts 1" T-Slot Size, 7/8" Diameter Bolt

Product Number	Weight, Lbs.	Length Under Head, Inches
79-757	1.09	3
79-759	1.27	4
79-761	1.44	5
79-763	1.59	6
79-765	1.78	7
79-767	1.96	8
79-771	2.28	10

T-Slot Nuts

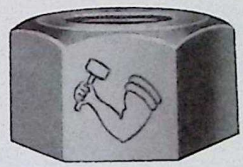
For use with threaded studs on machine tools equipped with slotted tables. Forged nuts will fit T-slots without machining, and duplicate dimensions of T-Slot Bolts. Available in Unified National Coarse, U.N.C. thread only.

Product Number	T-Slot Size, Inches	U.S. Standard Thread	Weight, Pounds
79-825	5/8	1/2-13	.17
79-827	3/4	5/8-11	.28
79-829	7/8	3/4-10	.39
79-831	1	7/8-9	.57

Hex Nuts

For use with T-Slot Bolts. Heat treated for added strength. Available in Unified National Coarse, U.N.C. thread only.

Product Number	Bolt Dia., Inches	Across Flats, Inches	Thickness, Inches	Weight, Lbs.
79-841	3/8	11/16	1/2	.04
79-843	1/2	7/8	5/8	.08
79-845	5/8	1-1/16	3/4	.15
79-847	3/4	1 -1/4	7/8	.24
79-849	7/8	1-7/16	1	.35



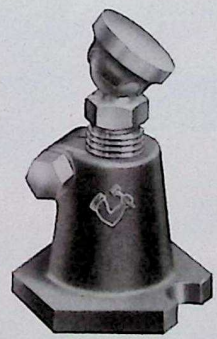
Washers

For use with T-Slot Bolts, Washers are heavy and extra thick. Heat treated for added strength.

Product Number	Bolt Dia., Inches	I.D., Inches	O.D., Inches	Thickness, Inches	Weight, Lbs.
79-859	3/8	7/16	13/16	3/16	.02
79-861	1/2	9/16	1	3/16	.03
79-863	5/8	23/32	1-1/4	1/4	.06
79-865	3/4	27/32	1-1/2	1/4	.08
79-867	7/8	31/32	1-3/4	1/4	.12

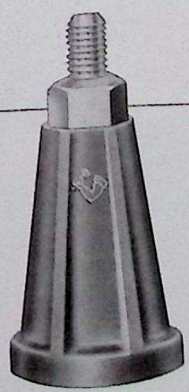
Jacks

Designed to quickly, safely and solidly level and brace work on machine tool tables. Wide range of adjustments on each style assures that work can be perfectly supported regardless of how irregular its shape. Vertical jacks offer the special feature of an absolutely straight thrust—neither base nor screw revolve. Nut is the only part that turns, a design which allows operator to position jack under a severely sloping surface without danger of slipping or creeping. Malleable Iron Bodies, Black Finish.



Planer Jacks

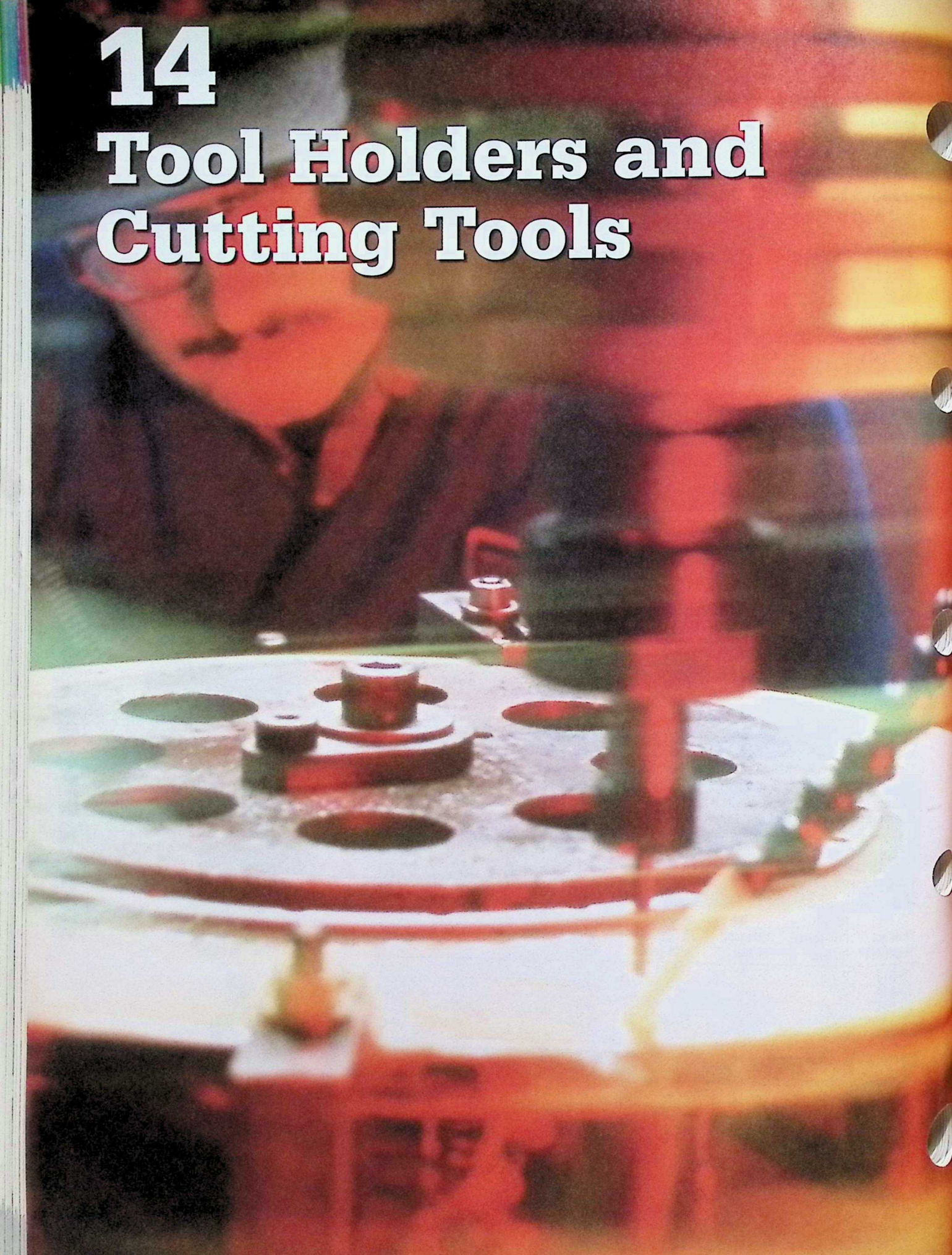
Product Number	Height Contracted, Inches	Height Extended, Inches	Safe Static Load In Tons	Weight, Lbs.
79-917	2-7/8	3-3/4	2	1.15
79-919	4	5-1/4	4	2.40
79-921	5-3/8	7-1/2	6	4.80
79-923	7-1/2	12	8	10.96



Vertical Jacks

Product Number	Height Contracted, Inches	Height Extended, Inches	Screw Diameter, Inches	Safe Static Load In Tons	Weight, Lbs.
79-943	2-7/8	4-1/8	5/8	2	1.57
79-945	4-1/8	6-5/8	5/8	2	2.02

...lication Guidelines, see Appendix A.

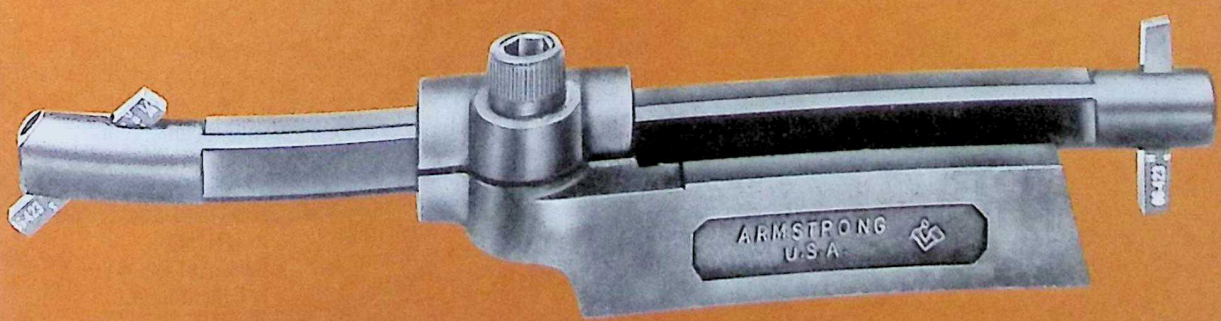


14 Tool Holders and Cutting Tools

Tool Holders and Cutting Tools

It was the tool holder upon which Armstrong was founded in 1890. Today, tool rooms and machine shops throughout the world continue to demand Armstrong Tool Holders, knowing the ruggedness and quality of those first tools is still built into everything we make.

- Turning Tool Holders
- Cut-Off Tool Holders
- Boring Tool Holders
- Boring Bars
- Knurling Tools
- Threading Tool Holders
- Tool Bits
- Cut off Blades



ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS

Turning Tool Holders

For use with standard Armstrong High Speed Tool Bits.

Accurately machined and carefully heat treated, these tool holders feature a relieved cutter bit hole to assure proper seating of tool bits, thereby reducing breakage. Set screws are made from alloy steel and have hardened points. Turning Tool Holders are furnished with tool bit and wrench.

Turning Tool Holders Straight Shank

Product Number	Holder Size, Inches	Tool Bit Size, Inches	For Lathes, Approximate Swing, In.	Height from Bottom of Shank to Cutter Pt., In.	Weight, Lbs.
83-013	3/8 x 7/8 x 5	1/4	10 to 12	13/16	.64
83-019	1/2 x 1-1/8 x 6	5/16	14 to 16	1-1/16	1.18
83-025	5/8 x 1-3/8 x 7	3/8	16 to 18	1-1/4	1.96
83-037	7/8 x 1-3/4 x 9	1/2	24 to 36	1-21/32	4.36

Turning Tool Holders, Offset for Left-Hand Turning

Product Number	Holder Size, Inches	Tool Bit Size, Inches	For Lathes, Approximate Swing, In.	Height from Bottom of Shank to Cutter Pt., In.	Weight, Lbs.
83-015	3/8 x 7/8 x 5	1/4	10 to 12	13/16	.64
83-021	1/2 x 1-1/8 x 6	5/16	14 to 16	1-1/16	1.18
83-027	5/8 x 1-3/8 x 7	3/8	16 to 18	1-1/4	1.96
83-039	7/8 x 1-3/4 x 9	1/2	24 to 36	1-21/32	4.36

Turning Tool Holders, Offset for Right-Hand Turning

Product Number	Holder Size, Inches	Tool Bit Size, Inches	For Lathes, Approximate Swing, In.	Height from Bottom of Shank to Cutter Pt., In.	Weight, Lbs.
83-017	3/8 x 7/8 x 5	1/4	10 to 12	13/16	.64
83-023	1/2 x 1-1/8 x 6	5/16	14 to 16	1-1/16	1.18
83-029	5/8 x 1-3/8 x 7	3/8	16 to 18	1-1/4	1.96
83-041	7/8 x 1-3/4 x 9	1/2	24 to 36	1-21/32	4.36

Carbide Tool Holders

For use with standard Armstrong Carbide Tipped Cutters.

Cutter is held parallel to the shank of the holder. This simplifies grinding cutters to the correct rake and clearance, and gives maximum support to the cutting edge. Set screws are made from alloy steel and have hardened points. May also be used as a planer and shaper tool. Carbide Tool Holders are furnished with wrench but do not include cutter.

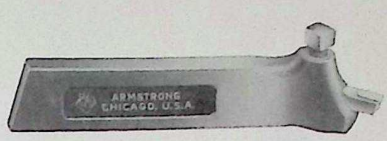
Carbide Tool Holders, Straight Shank

Product Number	Holder Size, Inches	Tool Bit Size, Inches	For Lathes, Approximate Swing, In.	Height from Bottom of Shank to Cutter Pt., In.	Weight, Lbs.
83-081	3/8 x 15/16 x 6	1/4	9 to 10	11/16	.68
83-087	1/2 x 1-1/4 x 7	5/16	11 to 14	7/8	1.27
83-093	5/8 x 1-1/2 x 8	3/8	14 to 16	1	2.12

Always wear eye protection when

Carbide Tool Holders, Offset for Left-Hand Turning

Product Number	Holder Size, Inches	Tool Bit Size, Inches	For Lathes, Approximate Swing, In.	Height from Bottom of Shank to Cutter Pt., In.	Weight, Lbs.
83-083	3/8 x 15/16 x 6	1/4	9 to 10	11/16	.68
83-089	1/2 x 1-1/4 x 7	5/16	11 to 14	7/8	1.27
83-095	5/8 x 1-1/2 x 8	3/8	14 to 16	1	2.12



Carbide Tool Holders, Offset for Right-Hand Turning

Product Number	Holder Size, Inches	Tool Bit Size, Inches	For Lathes, Approximate Swing, In.	Height from Bottom of Shank to Cutter Pt., In.	Weight, Lbs.
83-085	3/8 x 15/16 x 6	1/4	9 to 10	11/16	.68
83-091	1/2 x 1-1/4 x 7	5/16	11 to 14	7/8	1.27
83-097	5/8 x 1-1/2 x 8	3/8	14 to 16	1	2.12

Cut-Off Tool Holders

For use with standard Armstrong High Speed Steel Cut-Off Blades.

Machined to precise tolerances and carefully heat treated, Armstrong Cut-Off Tool Holders support the blade over a wide area, reducing chance of blade breakage. Blade can be adjusted to any desired clearance for greater versatility, and it's bevelled on both sides and held at an angle, providing necessary side clearance and top rake for a clean, smooth cut. Cut-Off Tool Holders are furnished with one cut-off blade and wrench.

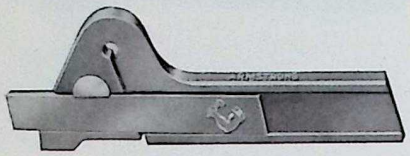
Cut-Off Tool Holders, Straight Shank

Product Number	Holder Size, Inches	Tool Bit Size, Inches	For Lathes, Approximate Swing, In.	Height from Bottom of Shank to Cutter Pt., In.	Weight, Lbs.
83-147	5/16 x 3/4 x 4-1/2	3/32 x 1/2	6 to 8	5/8	.50
83-153	3/8 x 7/8 x 5	3/32 x 5/8	9 to 10	3/4	.65
83-159	1/2 x 1-1/8 x 6	1/8 x 3/4	11 to 14	7/8	1.12
83-165	5/8 x 1-3/8 x 7	1/8 x 7/8	14 to 16	1-3/16	1.83
83-171	3/4 x 1-5/8 x 8	3/16 x 1	16	1-1/4	2.87

Cut-Off Tool Holders, Right-Hand Offset

Product Number	Holder Size, Inches	Cut-Off Blade Size, Inches	For Lathes, Approximate Swing, Inches	Height from Bottom of Shank to Blade Pt., In.	Weight, Lbs.
83-151	5/16 x 3/4 x 4-1/2	3/32 x 1/2	6 to 8	5/8	.50
83-157	3/8 x 7/8 x 5	3/32 x 5/8	9 to 10	3/4	.65
83-163	1/2 x 1-1/8 x 6	1/8 x 3/4	11 to 14	7/8	1.12
83-169	5/8 x 1-3/8 x 7	1/8 x 7/8	14 to 16	1-3/16	1.83
83-175	3/4 x 1-5/8 x 8	3/16 x 1	16	1-1/4	2.87

Application Guidelines, see Appendix A.



Spring Cut-Off Tool Holders, Straight Shank

For use with standard Armstrong High Speed Steel Cut-Off Blades.

The "goose-neck" design of the Spring Cut-Off Tool Holder gives the blade a resiliency that absorbs any chatter and keeps the work from climbing the tool. All other features are same as Cut-Off Tool Holders. Furnished with one cut-off blade and wrench.

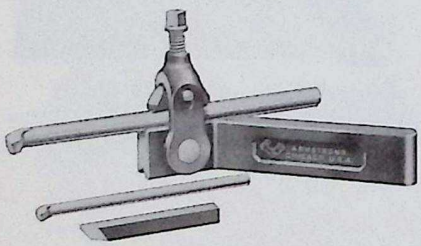
Product Number	Holder Size, Inches	Cut-Off Blade Size, Inches	For Lathes, Approximate Swing, Inches	Height from Bottom of Shank to Blade Pt., In.	Weight, Lbs.
83-213	3/8 x 7/8 x 5-1/2	3/32 x 5/8	9 to 10	3/4	.81
83-219	1/2 x 1-1/8 x 6-5/8	1/8 x 3/4	11 to 14	15/16	1.40
83-225	5/8 x 1-3/8 x 7-1/2	1/8 x 7/8	14 to 16	1-3/16	2.46

Reversible Yoke Boring Tool Holders

For light duty boring, threading and turning. A handy tool holder ideal for boring small internal diameters, threading, turning soft metals such as brass or aluminum. Reversible yoke feature allows tool to be used for either left or right-hand turning. Floating gib spreads screw pressure over wide area. Furnished with wrench. Available plain or with various combinations of cutting tools and boring bars.

Reversible Yoke Boring Tool, Tool Holder Only

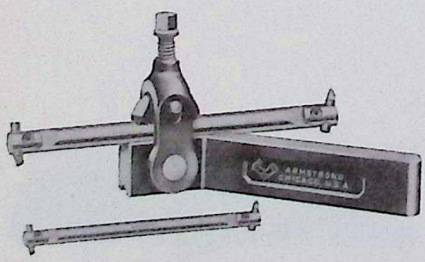
Product Number	Holder Size, Inches	Forged Bars, Dia., Inches	Clamp Bars, Dia., Inches	Tool Bits Sq., Inches	Weight, Lbs.
83-301	3/8 x 3/4	3/16 & 1/4	3/16 & 1/4	1/4	.87
83-303	1/2 x 1	3/16 & 5/16	1/4 & 3/8	5/16	1.58
83-305	5/8 x 1-1/4	1/4 & 3/8	3/8 & 1/2	3/8	2.73



Reversible Yoke Boring Tool Holders with Forged Bars

Furnished with two forged boring bars and one H.S.S. square tool bit.

Product Number	Holder Size, Inches	Forged Bars, Dia., Inches	Clamp Bars, Dia., Inches	Tool Bits Sq., Inches	Weight, Lbs.
83-309	3/8 x 3/4	3/16 & 1/4	3/16 & 1/4	1/4	.87
83-311	1/2 x 1	3/16 & 5/16	1/4 & 3/8	5/16	1.58
83-313	5/8 x 1-1/4	1/4 & 3/8	3/8 & 1/2	3/8	2.73



Reversible Yoke Boring Tool Holders with Clamp Bars

Furnished with two clamp boring bars and four H.S.S. round tool bits.

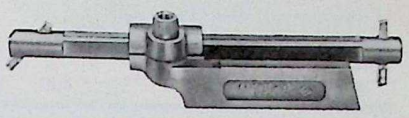
Product Number	Holder Size, Inches	Forged Bars, Dia., Inches	Clamp Bars, Dia., Inches	Tool Bits Sq., Inches	Weight, Lbs.
83-317	3/8 x 3/4	3/16 & 1/4	3/16 & 1/4	1/4	.87
83-319	1/2 x 1	3/16 & 5/16	1/4 & 3/8	5/16	1.58
83-321	5/8 x 1-1/4	1/4 & 3/8	3/8 & 1/2	3/8	2.73

Always wear eye protection when near tools in

Heavy Duty Boring Tool Holder

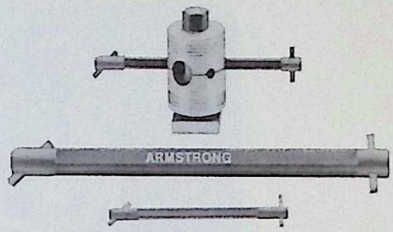
Designed for heavy duty boring where the extra bulk and long collar are necessary to support the bar. After precision machining, holder is carefully heat treated. Furnished with plain boring bar with flat surfaces (broached with 90° angle at one end and 45° angle at the other), two High Speed Steel tool bits and necessary wrenches.

Product Number	Holder Size, Inches	Boring Bar, Dia., In.	Tool Bits, Sq., In.	For Lathes, Approximate Swing, In.	Height from Bottom of Shank to Center, In.	Weight, Lbs.
83-341	5/16 x 3/4 x 4-7/8	1/2	3/16	6 to 8	3/4	1.08
83-342	3/8 x 7/8 x 5-3/8	5/8	3/16	9 to 10	7/8	1.47
83-345	1/2 x 1-1/8 x 6-1/8	3/4	1/4	11 to 14	1-1/8	3.18
83-348	5/8 x 1-3/8 x 7-7/16	1	5/16	14 to 16	1-1/4	5.78

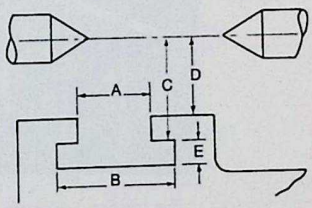


3-Bar Boring Tools

A highly versatile tool holder for heavy duty boring. Unique design permits use of any of three boring bars, so stiffest bar possible may always be used. By loosening a single nut, bars can be changed and every bar will always be on center. Bolt head and bottom shell are made extra large for adaptability to a wide range of lathe compounds. Furnished with three plain boring bars (each broached with 90° angle in one end and 45° angle in other end), six High Speed Steel tool bits and necessary wrenches.



Product Number	Bars, Diameters, Inches	Bars, Length, Inches	Square Tool Bit Size, Inches	For Lathes, Approximate Swing, In.	Height from Bottom of Holder to Center, In.	Holder Dia., In.	Weight, Lbs.
83-411	3/8*, 1/2, 3/4	7, 8, 11	3/8*, 3/16, 1/4	8 to 10	1-5/16	2	4.70
83-412	1/2, 5/8, 3/4	8, 9, 11	3/16, 3/16, 1/4	11 to 14	1-7/8	2-1/2	8.50

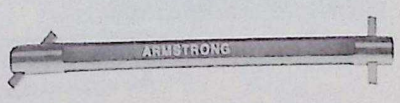


* 3/8 diameter bar is forged; does not require tool bits.

Fitting: An additional charge will be made for fitting 3-Bar Boring Tools to the lathe on which they'll be used. Please supply those dimensions indicated on drawing when ordering a fitted 3-Bar Boring Tool.

Boring Bars, Plain Pattern with Flats

Broached with 90° angle in one end and 45° angle in other end. Four flat surfaces are ground onto each bar to facilitate clamping with set screws. Furnished with two High Speed Steel Tool Bits and hex wrench. Black finish.



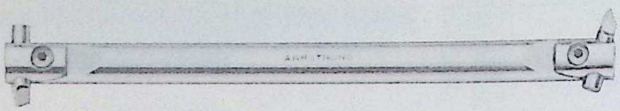
Product Number	Bars, Dia,. In.	Bars, Length,In.	Square Tool Bit Size, In.	Weight, Lbs.
83-426	1/2	8	3/16	.45
83-428	5/8	9	3/16	.62
83-430	3/4	11	1/4	1.35
83-432	1	13	5/16	2.47

Forged Boring Bars

Forged from top quality High Speed Steel, these boring bars are carefully heat treated and ground to shape, ready for finish grinding.

Product Number	Diameters, Inches	Length, Inches	Weight, Lbs.
83-531	1/8	4	.01
83-533	3/16	4-1/2	.04
83-535	1/4	5	.07
83-537	5/16	6	.13
83-539	3/8	7	.22

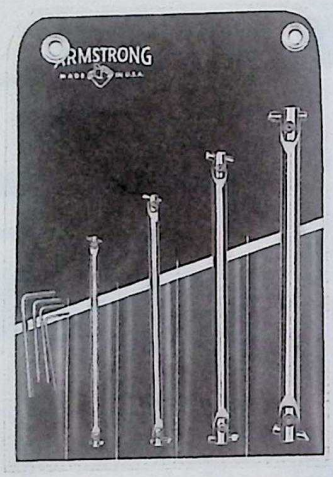
...ification Guidelines, see Appendix A.



Clamp Boring Bars

Clamp Bars are precision-machined from selected steel and designed to hold tool bits at the extreme ends of bar without interference from set screws or bolts. One bit held at 90° angle, other bit held at 15°. Each Boring Bar furnished with two round tool bits (one for boring; one for threading) and hex wrench.

Product Number	Diameter, Inches	Length, Inches	Tool Bit Dia., In.	Use with Boring Tool Holder	Weight, Lbs.
83-561	3/16	5	3/32	83-301	.04
83-563	1/4	6	1/8	83-301 or 83-303	.09
83-565	3/8	7	3/16	83-303 or 83-305	.22
83-567	1/2	8	1/4	83-303 or 83-305	.45



Clamp Boring Bar Set 83-571

Contents: One each of all four Clamp Boring Bars, eight Round Tool Bits, four Hex Wrenches. In Vinyl Roll No. 29-316.

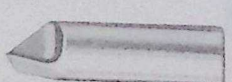
Approximate weight, 1.22 lbs.

Product Number	Description	Product Number	Description
83-561	3/16 Clamp Boring Bar	83-584	3/32 Round Tool Bit
83-563	1/4 Clamp Boring Bar	83-586	1/8 Round Tool Bit
83-565	3/8 Clamp Boring Bar	83-588	3/16 Round Tool Bit
83-567	1/2 Clamp Boring Bar	83-590	1/4 Round Tool Bit
83-576	3/32 Round Tool Bit	—	.050 Hex Key
83-578	1/8 Round Tool Bit	—	1/16 Hex Key
83-580	3/16 Round Tool Bit	—	5/64 Hex Key
83-582	1/4 Round Tool Bit	—	1/8 Hex Key

Hi Speed Steel Round Tool Bits For Boring

For use in Clamp Boring Bars, Round Tool Bits are machined from the best High Speed Steel. Bits are carefully heat treated and ground for either boring or threading.

Product Number	Diameter, Inches	Use with Boring Bar	Weight, Lbs.
83-576	3/32	83-561	.001
83-578	1/8	83-563	.001
83-580	3/16	83-565	.004
83-582	1/4	83-567	.012



Hi Speed Steel Round Tool Bits For Threading

Product Number	Diameter, Inches	Use with Boring Bar	Weight, Lbs.
83-584	3/32	83-561	.001
83-586	1/8	83-563	.001
83-588	3/16	83-565	.004
83-590	1/4	83-567	.012

Always wear eye protection when

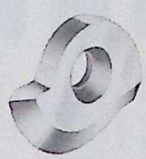
Threading Tool Holders

Armstrong Threading Tool Holders are precisely machined, carefully heat treated and feature a specially designed, drop forged M-2 High Speed Steel, Formed Threading Cutter. The 60° sharp V-thread cutter cuts an accurate thread in even the toughest materials and can be resharpened by grinding the top edge only. Cutters are backed off providing proper clearance, and the tool holder has a hardened stop screw which bears on the eccentric cutter back. This important feature permits positive and accurate adjustment after grinding.

Product Number	Holder Size, Inches	For Lathes, Approximate Swing, Inches	Height from Bottom of Bottom of Shank to Cutter Point, In.	Weight, Pounds
83-623	3/8 x 7/8 x 5	10 to 12	7/8	.68
83-625	1/2 x 1-1/8 x 6	14 to 16	1-1/8	1.38
83-627	5/8 x 1-3/8 x 7	16 to 18	1-3/8	2.08

Formed Threading Cutters

Drop forged from M-2 High Speed Steel, Formed Cutters are carefully heat treated and ground to produce a sharp, accurate 60° V-thread in even the toughest materials.



Product Number	Use With	Weight, Lbs.
83-647	83-623	.08
83-649	83-625	.13
83-651	83-627	.19

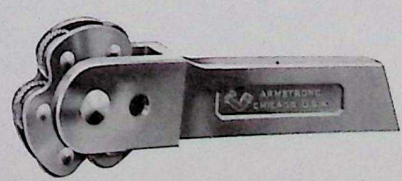
Knurling Tools

Self-centering Knurling Tool features a knuckle or joint with sufficient bearing to resist the severe strains of end and side thrust. Knurl pins are made from tool steel and are carefully tempered; knurls are hob cut from M-2 High Speed Steel and precisely heat treated. Tool Holder is drop forged from Alloy Steel, heat treated. Natural finish. Standard face medium pitch diamond pattern knurls are always furnished unless other patterns are specified. Other knurls are available.

Product Number	Holder Size, Inches	Knurl Dimensions, In. Dia.	Face (Std.)	Hole	Knurling Capacity, Inches	For Lathes, Approximate Swing, Inches	Weight, Lbs.
83-671	5/16 x 3/4 x 5	5/8	3/16	7/32	1/8 & up	7 to 10	.52
83-673	3/8 x 7/8 x 5-1/2	5/8	3/16	7/32	1/8 & up	10 to 12	.67
83-675	1/2 x 1-1/8 x 6-1/2	3/4	1/4	1/4	3/16 & up	14 to 16	1.35
83-677	5/8 x 1-3/8 x 7-1/2	3/4	1/4	1/4	3/16 & up	16 to 18	1.91

Revolving Head Knurling Tools

Revolving Head Knurling Tools embody all the features of Standard models listed above plus one important extra—these tools are fitted with three pairs of knurls, any of which can be instantly brought to bear on the workpiece. No time is lost changing knurls. Furnished with standard face diamond pattern knurls in fine, medium and coarse pitch, unless otherwise specified.

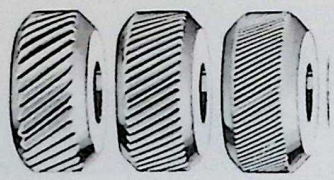


Product Number	Holder Size, Inches	Knurl Dimensions, In. Dia.	Face (Std.)	Hole	Knurling Capacity, Inches	For Lathes, Approximate Swing, Inches	Weight, Lbs.
83-691	5/16 x 3/4 x 5	5/8	3/16	7/32	3/16 & up	7 to 10	.89
83-693	3/8 x 7/8 x 5-1/2	5/8	3/16	7/32	3/16 & up	10 to 12	.98
83-695	1/2 x 1-1/8 x 6-1/2	3/4	1/4	1/4	1/4 & up	14 to 16	1.66
83-697	5/8 x 1-3/8 x 7-1/2	3/4	1/4	1/4	1/4 & up	16 to 18	2.20

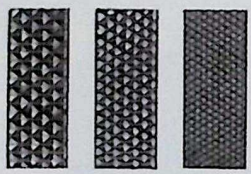
...ication Guidelines, see Appendix A.

High Speed Steel Knurls

Every Armstrong Knurl is individually hob cut from M-2 High Speed Steel, to produce sharp, perfectly formed teeth. Manufacturing tolerances are highly precise for knurl thickness and hole diameter. Hole is always concentric under hob cut methods of manufacture. After careful heat treating, all knurls are tested to assure work of uniform precision. Knurls are furnished in pairs and will fit all standard knurling tools. Pitch, as noted below, refers to number of teeth per lineal inch.

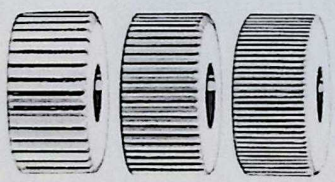


Coarse 14 Pitch | Medium 21 Pitch | Fine 33 Pitch

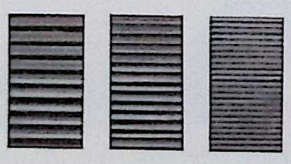


Standard Face Knurls, Diamond Pattern

Product Number	Pitch	For Knurling Tool	Dia.	Width	Thick-ness	Hole Dia.	Pair, Weight, Lbs.
83-721	14	83-671, 83-673, 83-691, 83-693, 89-577	5/8	3/16	5/16	7/32	.04
83-723	21	83-671, 83-673, 83-691, 83-693, 89-577	5/8	3/16	5/16	7/32	.04
83-725	33	83-671, 83-673, 83-691, 83-693, 89-577	5/8	3/16	5/16	7/32	.04
83-728	14	81-105, 81-107, 83-675, 83-677, 83-695, 83-697	3/4	1/4	3/8	1/4	.08
83-730	21	81-105, 81-107, 83-675, 83-677, 83-695, 83-697	3/4	1/4	3/8	1/4	.08
83-732	33	81-105, 81-107, 83-675, 83-677, 83-695, 83-697	3/4	1/4	3/8	1/4	.08



Coarse 14 Pitch | Medium 21 Pitch | Fine 33 Pitch



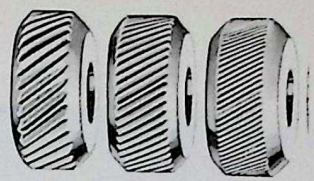
Standard Face Knurls, Straight Line Pattern

Product Number	Pitch	For Knurling Tool	Dia.	Width	Thick-ness	Hole Dia.	Pair, Weight, Lbs.
83-781	14	83-671, 83-673, 83-691, 83-693, 89-577	5/8	3/16	5/16	7/32	.04
83-783	21	83-671, 83-673, 83-691, 83-693, 89-577	5/8	3/16	5/16	7/32	.04
83-785	33	83-671, 83-673, 83-691, 83-693, 89-577	5/8	3/16	5/16	7/32	.04
83-788	14	81-105, 81-107, 83-675, 83-677, 83-695, 83-697	3/4	1/4	3/8	1/4	.08
83-790	21	81-105, 81-107, 83-675, 83-677, 83-695, 83-697	3/4	1/4	3/8	1/4	.08
83-792	33	81-105, 81-107, 83-675, 83-677, 83-695, 83-697	3/4	1/4	3/8	1/4	.08

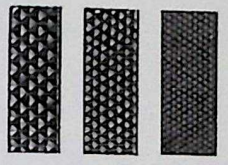
Always wear eye protecti

Full Face Knurls, Diamond Pattern

Product Number	Pitch	For Knurling Tool	Dia.	Width	Thick-ness	Hole Dia.	Pair, Weight, Lbs.
83-758	14	83-675, 83-677, 83-695, 83-697	3/4	3/8	3/8	1/4	.08
83-760	21	83-675, 83-677, 83-695, 83-697	3/4	3/8	3/8	1/4	.08
83-762	33	83-675, 83-677, 83-695, 83-697	3/4	3/8	3/8	1/4	.08

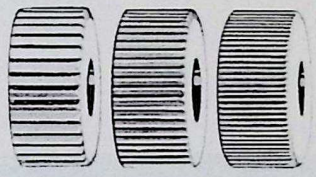


Coarse 14 Pitch | Medium 21 Pitch | Fine 33 Pitch

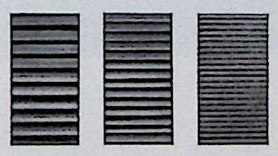


Full Face Knurls, Straight Line Pattern

Product Number	Pitch	For Knurling Tool	Dia.	Width	Thick-ness	Hole Dia.	Pair, Weight, Lbs.
83-818	14	83-675, 83-677, 83-695, 83-697	3/4	3/8	3/8	1/4	.08
83-820	21	83-675, 83-677, 83-695, 83-697	3/4	3/8	3/8	1/4	.08
83-822	33	83-675, 83-677, 83-695, 83-697	3/4	3/8	3/8	1/4	.08



Coarse 14 Pitch | Medium 21 Pitch | Fine 33 Pitch



Extra Knurl Pins

Product Number	For Knurling Tool	Pair, Weight, Lbs.
83-841	83-671, 83-673, 83-691, 83-693	.12
83-843	83-675, 83-677, 83-695, 83-697	.22
83-845	83-679	.46

High Speed Steel Ground Tool Bits and Cut-Off Blades

Available in two versatile grades of High Speed Steel, M-2 and M-34, bits and blades are ground on all sides and ready for use. Packaged for convenient handling. Each tool is clearly marked with size and product number.

Steel Analysis M-2 Tungsten Moly High Speed Steel
Carbon, .84%; Manganese, .25%; Silicon, .30%; Tungsten, 6.40%; Chromium, 4.15%; Vanadium, 1.90%; Molybdenum, 5.00%.

M-34 Cobalt High Speed Steel
Carbon, .90%; Manganese, .30%; Silicon, .30%; Tungsten, 1.55%; Chromium, 3.75%; Vanadium, 2.00%; Molybdenum, 8.70%; Cobalt, 8.00%.

Square Tool Bits, M-2 H.S.S.

Ends Beveled 10°

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-001	3/16	2	.02
86-003	1/4	2-1/2	.04
86-005	5/16	2-1/2	.07
86-007	3/8	3	.12
86-011	1/2	4	.29
86-013	5/8	4-1/2	.51

Square Tool Bits, M-34 H.S.S.

Ends Beveled 10°

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-041	3/16	2	.02
86-043	1/4	2-1/2	.04
86-045	5/16	2-1/2	.07
86-047	3/8	3	.12
86-051	1/2	4	.29
86-053	5/8	4-1/2	.51
86-055	3/4	5	.82

Cut-Off Blades, M-2 H.S.S.

For Straight and Right-Hand Tools—Ends Beveled

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-257	3/32 x 1/2	4-1/2	.05
86-259	3/32 x 5/8	5	.07
86-261	1/8 x 3/4	5	.12
86-263	1/8 x 7/8	6	.16
86-265	3/16 x 1	6-1/2	.28

Always wear

Cut-Off Blades, M-34 H.S.S.

For Straight and Right-Hand Tools—Ends Beveled

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-291	3/32 x 1/2	4-1/2	.05
86-293	3/32 x 5/8	5	.07
86-295	1/8 x 3/4	5	.12
86-297	1/8 x 7/8	6	.16
86-299	3/16 x 1	6-1/2	.28

High Speed Steel Unground Tool Bits and Cut-Off Blades

Made from M-2 High Speed Steel and carefully hardened, these tool bits and blades are ready for finish grinding.

Square Tool Bits For Turning Tools

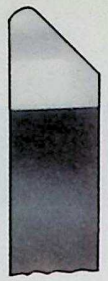
Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-391	3/16	2	.02
86-393	1/4	2-1/2	.05
86-395	5/16	2-1/2	.07
86-397	3/8	3	.12
86-399	7/16	3-1/2	.19
86-401	1/2	4	.29

Square Tool Bits For Boring Tools

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-421	3/16	1-1/4	.01
86-423	1/4	1-3/4	.03
86-425	5/16	2-1/4	.06
86-427	3/8	2-5/8	.11

Cut-Off Blades For Straight and Right-Hand Tools

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-471	3/32 x 1/2	4-1/2	.04
86-473	3/32 x 5/8	5	.07
86-475	1/8 x 3/4	5	.12
86-477	1/8 x 7/8	6	.17
86-479	3/16 x 1	6-1/2	.28



High Speed Steel Ground to Form Tool Bits, Left-Hand Turning Tool

Made from M-2 High Speed Steel and carefully heat treated, these tool bits are ground to ten popular, versatile shapes and ready for use.

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-531	1/4	2-1/2	.04
86-559	5/16	2-1/2	.07
86-583	3/8	3	.12

High Speed Steel Ground to Form Tool Bits, Round Nose Turning Tool

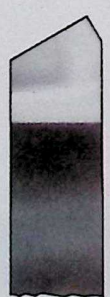
Made from M-2 High Speed Steel and carefully heat treated, these tool bits are ground to ten popular, versatile shapes and ready for use.

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-533	1/4	2-1/2	.04
86-561	5/16	2-1/2	.07
86-585	3/8	3	.12

High Speed Steel Ground to Form Tool Bits, Right-Hand Turning Tool

Made from M-2 High Speed Steel and carefully heat treated, these tool bits are ground to ten popular, versatile shapes and ready for use.

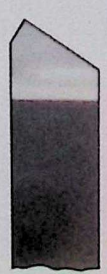
Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-537	1/4	2-1/2	.04
86-563	5/16	2-1/2	.07
86-587	3/8	3	.12



High Speed Steel Ground to Form Tool Bits, Left-Hand Corner Tool

Made from M-2 High Speed Steel and carefully heat treated, these tool bits are ground to ten popular, versatile shapes and ready for use.

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-539	1/4	2-1/2	.04
86-565	5/16	2-1/2	.07
86-589	3/8	3	.12



High Speed Steel Ground to Form Tool Bits, Threading Tool

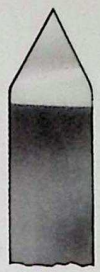
Made from M-2 High Speed Steel and carefully heat treated, these tool bits are ground to ten popular, versatile shapes and ready for use.

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-541	1/4	2-1/2	.04
86-567	5/16	2-1/2	.07
86-591	3/8	3	.12

High Speed Steel Ground to Form Tool Bits, Right-Hand Corner Tool

Made from M-2 High Speed Steel and carefully heat treated, these tool bits are ground to ten popular, versatile shapes and ready for use.

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-543	1/4	2-1/2	.04
86-569	5/16	2-1/2	.07
86-593	3/8	3	.12



High Speed Steel Ground to Form Tool Bits, Left-Hand Side Tool

Made from M-2 High Speed Steel and carefully heat treated, these tool bits are ground to ten popular, versatile shapes and ready for use.

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-545	1/4	2-1/2	.04
86-571	5/16	2-1/2	.07
86-595	3/8	3	.12

High Speed Steel Ground to Form Tool Bits, Square Nose Tool

Made from M-2 High Speed Steel and carefully heat treated, these tool bits are ground to ten popular, versatile shapes and ready for use.

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-547	1/4	2-1/2	.04
86-573	5/16	2-1/2	.07
86-597	3/8	3	.12

High Speed Steel Ground to Form Tool Bits, Right-Hand Side Tool

Made from M-2 High Speed Steel and carefully heat treated, these tool bits are ground to ten popular, versatile shapes and ready for use.

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-549	1/4	2-1/2	.04
86-575	5/16	2-1/2	.07
86-599	3/8	3	.12

High Speed Steel Ground to Form Tool Bits, Brass Tool

Made from M-2 High Speed Steel and carefully heat treated, these tool bits are ground to ten popular, versatile shapes and ready for use.

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-551	1/4	2-1/2	.04
86-577	5/16	2-1/2	.07
86-601	3/8	3	.12

Ground to Form Tool Bit Set 86-605

Contents: One each of all ten 1/4" bits from previous page.
In cardboard box.
Approximate weight, .41 lbs.

Ground to Form Tool Bit Set 86-607

Contents: One each of all ten 5/16" bits from previous page.
In cardboard box.
Approximate weight, .65 lbs.

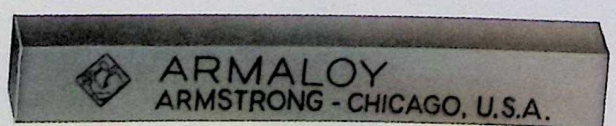
Ground to Form Tool Bit Set 86-608

Contents: One each of all ten 3/8" bits from previous page.
In cardboard box.
Approximate Weight, 1.12 lbs.

Armaloy Ground Tool Bits and Cut-Off Blades

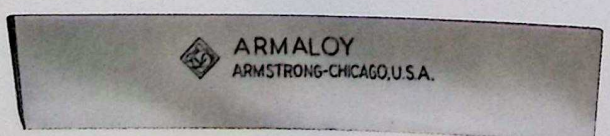
Made from cast alloy steel, these bits and blades have a hardness between that of High Speed Steels and sintered Carbides. Ideal for either rough or finish cuts on steel, malleable iron, cast iron, non-ferrous metals, rubber, and plastics. Bits are furnished ready for grinding to final cutter shape; blades are bevelled, ground to shape and ready for use.

Steel Analysis:
45-50% Cobalt, 27-32% Chromium, 14-19% Tungsten, 2-4% Carbon, 2-7% Tantalum, 1-3% Manganese, 2-5% Iron.



Square Armaloy Tool Bits

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-651	1/4	2-1/8	.04
86-653	5/16	2-1/2	.08
86-655	3/8	3	.13
86-659	1/2	4	.31



Armaloy Cut-Off Blades

Product Number	Size, Inches	Length, Inches	Weight, Lbs.
86-681	1/8 x 3/4	6	.13
86-683	1/8 x 7/8	6	.15
86-685	3/16 x 1	6	.28

Armide Sintered Carbide, or Gray Red Enamel Shanks Armide Carbide-Tipped Cutters

Armide is a sintered carbide material with a hardness approaching that of the diamond. It easily machines the toughest steels and castings and can be used also for hard rubber, plastics, and even glass.

Since cutters will hold their edge far longer than even the finest tool steels, they will machine from ten to 100 times as many pieces before they require regrinding.

Can be used in Armstrong Carbide Tool Holders and Quick Change Tool Holders, as well as other tool holding systems. Available in two popular grades, as described below.

Grade A7-For light roughing and general finishing of steel.
Red enamel shanks.

Grade A5-For heavy roughing of steel. Red enamel shanks.

Style AL, Grade A7—Straight Turning Tools

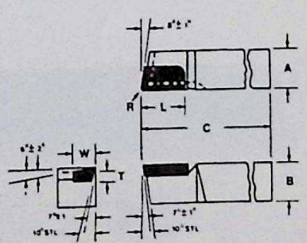
For Turning, Facing, Boring, Chamfering

Product Number	Size, Key	Shank Dimensions A	B	C	Nose Radius	Blank Dimensions T	W	L	Weight, Lbs.
87-401	4	1/4	1/4	2	1/64	3/32	3/16	5/16	.03
87-402	5	5/16	5/16	2-1/4	1/64	3/32	1/4	1/2	.06
87-403	6	3/8	3/8	2-1/2	1/64	3/32	1/4	1/2	.09
87-404	7	7/16	7/16	3	1/32	3/32	1/4	1/2	.15
87-405	8	1/2	1/2	3-1/2	1/32	1/8	5/16	5/8	.23

Style AR, Grade A7 —Straight Turning Tools

For Turning, Facing, Boring, Chamfering

Product Number	Size, Key	Shank Dimensions A	B	C	Nose Radius	Blank Dimensions T	W	L	Weight, Lbs.
87-421	4	1/4	1/4	2	1/64	3/32	3/16	5/16	.03
87-422	5	5/16	5/16	2-1/4	1/64	3/32	1/4	1/2	.06
87-423	6	3/8	3/8	2-1/2	1/64	3/32	1/4	1/2	.09
87-424	7	7/16	7/16	3	1/32	3/32	1/4	1/2	.15
87-425	8	1/2	1/2	3-1/2	1/32	1/8	5/16	5/8	.23



Style AL, Grade A5—Straight Turning Tools

For Turning, Facing, Boring, Chamfering

Product Number	Size, Key	Shank Dimensions A	B	C	Nose Radius	Blank Dimensions T	W	L	Weight, Lbs.
87-601	4	1/4	1/4	2	1/64	3/32	3/16	5/16	.03
87-602	5	5/16	5/16	2-1/4	1/64	3/32	1/4	1/2	.06
87-603	6	3/8	3/8	2-1/2	1/64	3/32	1/4	1/2	.09
87-605	8	1/2	1/2	3-1/2	1/32	1/8	5/16	5/8	.23

Style AR, Grade A5—Straight Turning Tools

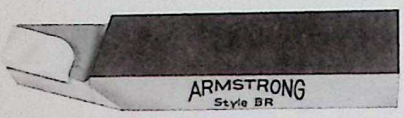
For Turning, Facing, Boring, Chamfering

Product Number	Size, Key	Shank Dimensions A	B	C	Nose Radius	Blank Dimensions T	W	L	Weight, Lbs.
87-621	4	1/4	1/4	2	1/64	3/32	3/16	5/16	.03
87-622	5	5/16	5/16	2-1/4	1/64	3/32	1/4	1/2	.06
87-623	6	3/8	3/8	2-1/2	1/64	3/32	1/4	1/2	.09
87-624	7	7/16	7/16	3	1/32	3/32	1/4	1/2	.15
87-625	8	1/2	1/2	3-1/2	1/32	1/8	5/16	5/8	.23

...tion Guidelines, see Appendix A.

Style BL, Grade A7—Lead Angle Turning Tools

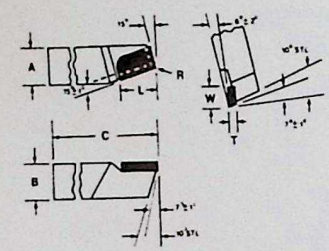
For Turning, Light Planing, Facing, Boring, Milling



Product Number	Size, Key	Shank Dimensions A	B	C	Nose Radius	Blank Dimensions T	W	L	Weight, Lbs.
87-441	4	1/4	1/4	2	1/64	3/32	3/16	5/16	.03
87-442	5	5/16	5/16	2-1/4	1/64	3/32	1/4	1/2	.06
87-443	6	3/8	3/8	2-1/2	1/64	3/32	1/4	1/2	.09
87-444	7	7/16	7/16	3	1/32	3/32	1/4	1/2	.15

Style BR, Grade A7—Lead Angle Turning Tools

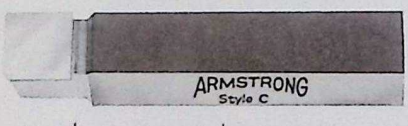
For Turning, Light Planing, Facing, Boring, Milling

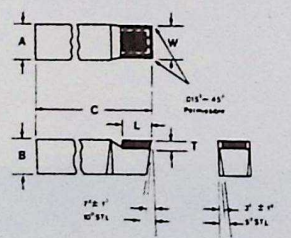


Product Number	Size, Key	Shank Dimensions A	B	C	Nose Radius	Blank Dimensions T	W	L	Weight, Lbs.
87-461	4	1/4	1/4	2	1/64	3/32	3/16	5/16	.03
87-462	5	5/16	5/16	2-1/4	1/64	3/32	1/4	1/2	.06
87-463	6	3/8	3/8	2-1/2	1/64	3/32	1/4	1/2	.09
87-464	7	7/16	7/16	3	1/32	3/32	1/4	1/2	.15
87-465	8	1/2	1/2	3-1/2	1/32	1/8	5/16	5/8	.22

Style C, Grade A7—Square Nose Tools

For Forming, Grooving, Turning, Chamfering, Facing

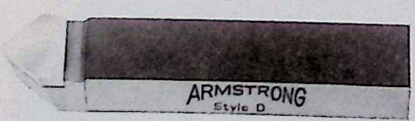


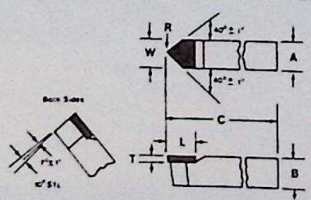


Product Number	Size, Key	Shank Dimensions A	B	C	Blank Dimensions T	W	L	Weight, Lbs.
87-491	4	1/4	1/4	2	1/16	1/4	5/16	.04
87-492	5	5/16	5/16	2-1/4	3/32	5/16	3/8	.06
87-493	6	3/8	3/8	2-1/2	3/32	3/8	3/8	.10

Style D, Grade A7—Point Nose, 80° Included Angle

For Light Turning, Undercutting, Boring, Chamfering



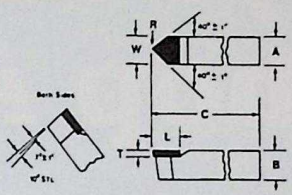


Product Number	Size, Key	Shank Dimensions A	B	C	Nose Radius	Blank Dimensions T	W	L	Weight, Lbs.
87-521	4	1/4	1/4	2	1/64	1/16	.240	5/16	.04
87-552	5	5/16	5/16	2-1/4	1/64	3/32	.302	3/8	.06
87-523	6	3/8	3/8	2-1/2	1/64	3/32	.365	1/2	.10

Style D, Grade A5—Point Nose, 80° Included Angle

For Light Turning, Undercutting, Boring, Chamfering

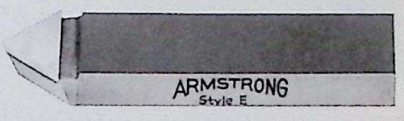
Product Number	Size, Key	Shank Dimensions A	B	C	Nose Radius	Blank Dimensions T	W	L	Weight, Lbs.
87-721	4	1/4	1/4	2	1/64	1/16	.240	5/16	.04
87-722	5	5/16	5/16	2-1/4	1/64	3/32	.302	3/8	.06
87-723	6	3/8	3/8	2-1/2	1/64	3/32	.365	1/2	.10
87-724	7	7/16	7/16	3	1/32	3/32	.427	1/2	.15
87-725	8	1/2	1/2	3-1/2	1/32	1/8	.490	1/2	.25
87-727	10	5/8	5/8	4	1/32	5/32	.615	5/8	.45

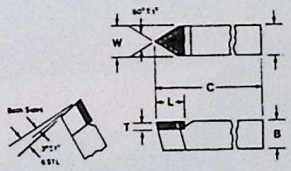


Style E, Grade A7—Neutral 60° Threading Tools

For American Standard Threading

Product Number	Size, Key	Shank Dimensions A	B	C	Blank Dimensions T	W	L	Weight, Lbs.
87-551	4	1/4	1/4	2	1/16	.240	5/16	.04
87-552	5	5/16	5/16	2-1/4	3/32	.302	3/8	.06
87-553	6	3/8	3/8	2-1/2	3/32	.365	1/2	.10



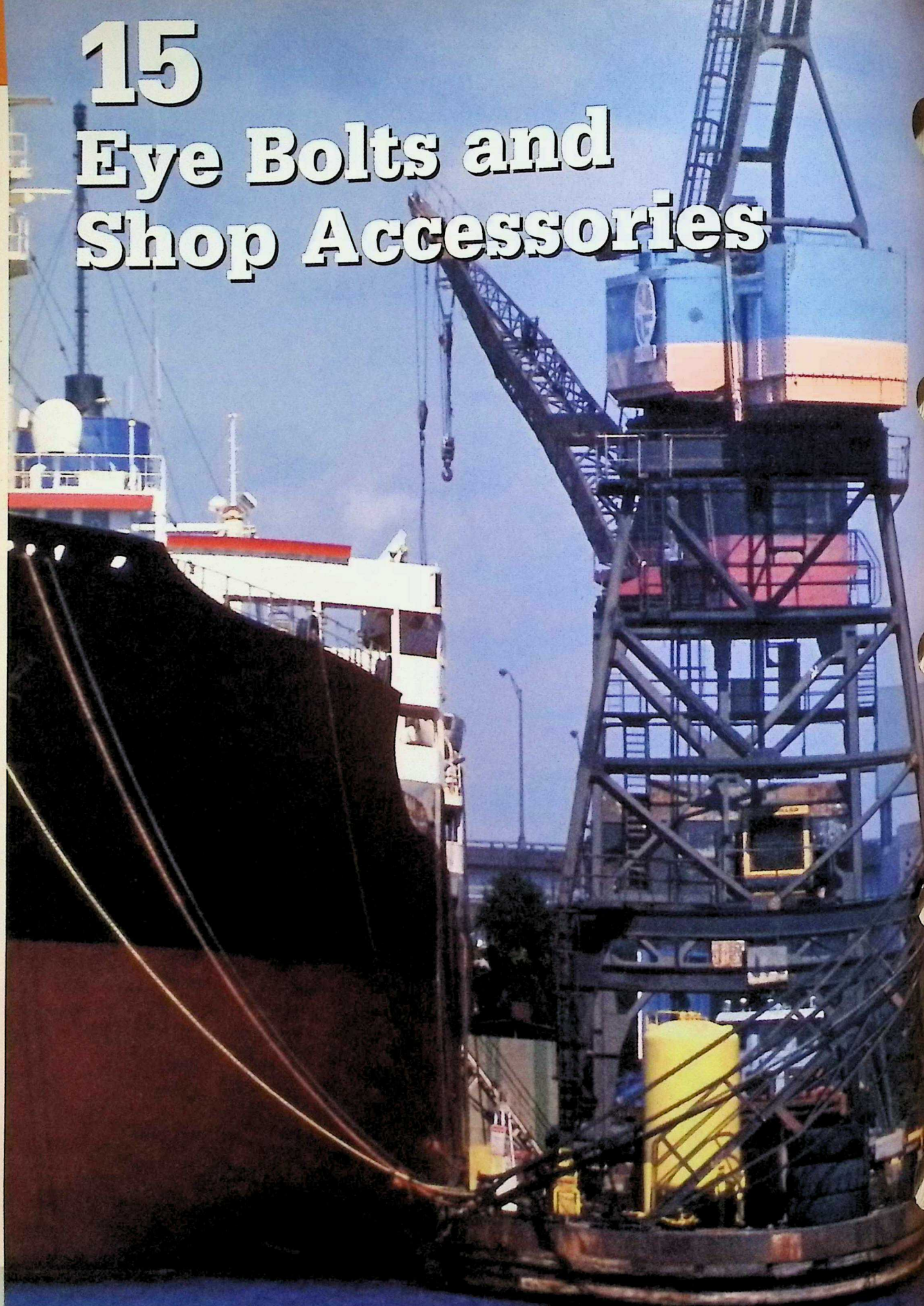


Style E, Grade A5—Neutral 60° Threading Tools

For American Standard Threading

Product Number	Size, Key	Shank Dimensions A	B	C	Blank Dimensions T	W	L	Weight, Lbs.
87-751	4	1/4	1/4	2	1/16	.240	5/16	.04
87-752	5	5/16	5/16	2-1/4	3/32	.302	3/8	.06
87-753	6	3/8	3/8	2-1/2	3/32	.365	1/2	.10
87-755	8	1/2	1/2	3-1/2	1/8	.490	9/16	.25

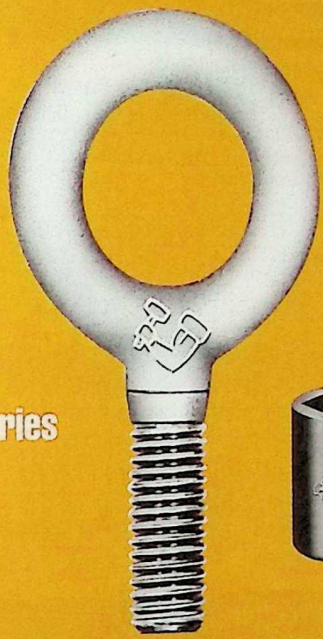
15
Eye Bolts and Shop Accessories

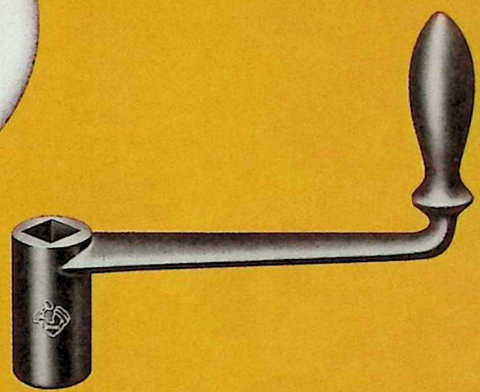


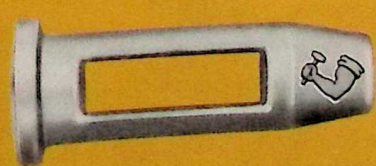
Eye Bolts and Shop Accessories

In this section you will find a number of unique tools, as well as old standards, to make your shop more productive. From a common lifting eye to a rarely required ratchet drill, all of these tools are designed and manufactured with the quality that has made Armstrong the preferred choice among professionals.

- Eye Bolts
- Crank Holders
- Lathe Dogs
- Tool Posts and Accessories
- Drill Drifts







SAFETY NOTICE

Eye Bolts

DON'T OVERLOAD
Follow carefully the working load recommendations.

ALTERING OF EYE BOLTS
Eye bolts should never be ground, machined, metal stamped or altered in any way, since such operation is likely to weaken the bolt. Eye bolts showing signs of having been so treated should be immediately destroyed.

DAMAGED THREADS
Eye bolts with worn, chipped or otherwise damaged threads should be immediately destroyed. Such damage weakens the eye bolt and can cause improper seating.

INSPECTION
Eye bolts should be routinely inspected for such conditions as:

- elongated or bent eye section
- elongated or bent shank
- nicks and gouges
- obvious wear
- worn, corroded and/or distorted threads
- cracks found by non-destructive testing
- absence of sufficient identifying markings

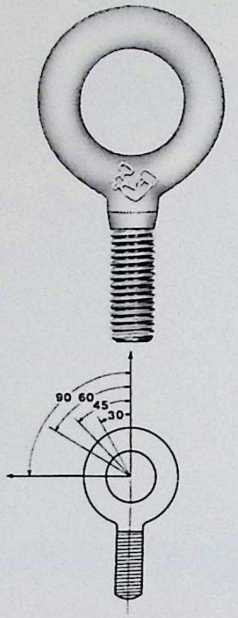
If any of these conditions exist, the eye bolt should be removed from service and destroyed. In addition, the receiving hole should be carefully cleaned and inspected for worn threads or other thread deterioration prior to each insertion of the eye bolt. Any eye bolt should be removed from service and destroyed when the name and/or trademark is no longer readily identifiable to guarantee proper reference for continued safe usage.

HOW TO DESTROY
Eye bolts that are being replaced should be rendered unusable. Crushing or cutting across the eye is recommended.

ARMSTRONG TOOLS
A Danaher Brand
THE MUSCLE IN HAND TOOLS

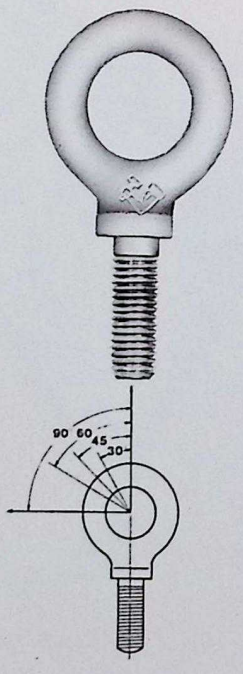
Armstrong Lifting Eyes (Eye Bolts)

Armstrong carbon steel Lifting Eyes are manufactured in accordance with the latest revision of ANSI/ASME B18.15. To ensure consistent performance, these uniformly designed, drop forged Lifting Eyes are quenched and tempered for optimum strength. Armstrong Lifting Eyes are furnished with Unified National Coarse (U.N.C.) threads. Special threads and lengths shorter than standard are available on special order.



Plain Pattern

Product Number	Shank Dimensions, In. Thread Size	Std. Length Under Eye	Eye Diameter, In. Inside	Outside	Guide for MAX. Working Load*, Lbs. 0°	30°	45°	60°	90°	Weight, Lbs.
89-001	1/4-20	1	3/4	1-3/16	500	70	NR	NR	NR	.05
89-002	5/16-18	1-1/8	7/8	1-7/16	800	200	NR	NR	NR	.08
89-003	3/8-16	1-1/4	1	1-21/32	1,400	600	300	250	200	.13
89-004	7/16-14	1-3/8	1-3/32	1-27/32	2,000	700	450	325	275	.20
89-005	1/2-13	1-1/2	1-3/16	2-1/16	2,600	850	525	475	400	.31
89-006	9/16-12	1-5/8	1-9/32	2-9/32	3,000	1,125	750	650	525	.41
89-007	5/8-11	1-3/4	1-3/8	2-1/2	4,000	1,400	950	800	700	.59
89-008	3/4-10	2	1-1/2	2-13/16	6,000	2,200	1,600	1,200	1,050	.83
89-009	7/8-9	2-1/4	1-11/16	3-1/4	7,200	2,850	2,000	1,750	1,500	1.36
89-010	1-8	2-1/2	1-13/16	3-9/16	9,500	3,800	2,800	2,400	2,150	2 09
89-011	1-1/8-7	2-3/4	2	4	11,800	4,700	3,400	3,100	2,650	2.92
89-012	1-1/4-7	3	2-3/16	4-7/16	15,000	6,000	4,400	3,800	3,400	3.83
89-014	1-1/2-6	3-1/2	2-1/2	5-3/16	21,700	8,600	6,200	5,500	5,000	6.44
89-015	1-3/4-5	3-3/4	2-7/8	6-1/16	29,500	11,600	8,200	7,500	6,700	11.92
89-016	2-4-1/2	4	3-1/4	6-7/8	38,500	15,400	11,200	10,000	8,900	14.55



Shoulder Pattern

Product Number	Shank Dimensions, In. Thread Size	Std. Length Under Shoulder	Eye Diameter, In. Inside	Outside	Guide for MAX. Working Load*, Lbs. 0°	30°	45°	60°	90°	Weight, Lbs.
89-021	1/4-20	1	3/4	1-3/16	500	75	NR	NR	NR	.05
89-022	5/16-18	1-1/8	7/8	1-7/16	800	225	NR	NR	NR	.08
89-023	3/8-16	1-1/4	1	1-21/32	1,400	650	350	325	275	.13
89-024	7/16-14	1-3/8	1-3/32	1-27/32	2,000	1,000	500	450	400	.20
89-025	1/2-13	1-1/2	1-3/16	2-1/16	2,600	1,200	650	600	525	.31
89-026	9/16-12	1-5/8	1-9/32	2-9/32	3,000	1,600	900	750	600	.41
89-027	5/8-11	1-3/4	1-3/8	2-1/2	4,000	2,000	1,200	950	800	.59
89-028	3/4-10	2	1-1/2	2-13/16	6,000	3,200	2,200	1,450	1,200	.83
89-029	7/8-9	2-1/4	1-11/16	3-1/4	7,200	3,800	2,500	2,000	1,650	1.36
89-030	1-8	2-1/2	1-13/16	3-9/16	9,500	5,000	3,600	2,800	2,400	2.09
89-031	1-1/8-7	2-3/4	2	4	11,800	5,500	4,500	3,850	3,400	2.92
89-032	1-1/4-7	3	2-3/16	4-7/16	15,000	7,000	5,200	4,200	3,700	3.83
89-034	1-1/2-6	3-1/2	2-1/2	5-3/16	21,700	10,500	7,200	6,100	5,500	6.44
89-035	1-3/4-5	3-3/4	2-7/8	6-1/16	29,500	14,000	10,500	8,300	7,400	11.92
89-036	2-4-1/2	4	3-1/4	6-7/8	38,500	18,000	13,500	11,000	9,750	14.55

NR: NOT RECOMMENDED

*These loads were determined using a very slow, steady pull. Jerking, sudden pulls and/or drops, and fast pulls impart very high and unpredictable loads to the Lifting Eye(s) which can exceed the MAXIMUM Working Load.

LIFTING EYE SAFETY

The dangers inherent in any lifting operation are obvious. Yet every year, accidents occur which could have been avoided by applying the simplest, most fundamental safety precautions.

1. Read and follow all of the suggestions stated in the "Manual of Proper Uses of Forged Eye Bolts," BEFORE attempting to use Lifting Eyes in any application.

   Copies of this manual are packed in every box of Armstrong Lifting Eyes. Extra copies are available from any Armstrong Distributor or directly from our Customer Service Department at (800) 866-5753.
2. ALWAYS stay well clear of the load.
3. DO NOT use Lifting Eyes for angular lifts unless ABSOLUTELY necessary. If angular lifts CANNOT be avoided, then ONLY Shoulder Pattern Lifting Eyes-which are specifically designed for this application-should be used.
4. Armstrong Carbon Steel Lifting Eyes must NEVER be welded.
5. DO NOT use Carbon Steel Lifting Eyes at temperatures below 32°F (0°C).
6. NEVER exceed the MAXIMUM Working Load of a Lifting Eye.

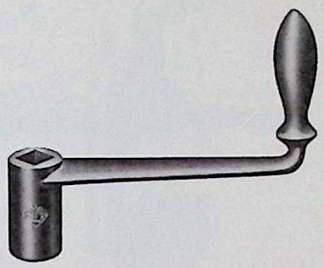
Crank Handles

Available in three levels of manufacture-Unfinished, Broached, or Finished-as outlined nearby. All broached openings are made with corners slightly rounded to prevent breakage and provide adequate clearance.

Finished Crank Handles

Holes are broached and free end of hub is counter-bored. Entire handle is ground, polished, heat treated, and finished in gray baked-on enamel.

Product Number	Length, In. Center to Center	Length, In. Extreme	Handle Above Arm, In.	Hub Dimensions, In. Diameter	Hub Dimensions, In. Length	Square Hole Size Broached, In. Standard in Stock	Square Hole Size Broached, In. Maximum on Special Order	Weight, Lbs.
89-204	3-1/2	4-1/2	2-7/8	1-1/16	1-5/16	1/2	5/8	.65
89-205	4	5-1/8	3-1/8	1-1/4	1-3/8	9/16	13/16	.97
89-206	5	6-1/8	3-1/8	1-1/4	1-13/16	5/8	13/16	1.21
89-208	6	7-1/8	3-1/8	1-1/4	1-15/16	11/16	13/16	1.15
89-210	7	8-1/4	3-3/8	1-3/8	2-1/16	3/4	7/8	1.51



Broached Crank Handles

Holes are finished and hubs are counter-bored in free end. No other finishing operations are made.

Product Number	Length, In. Center to Center	Length, In. Extreme	Handle Above Arm, In.	Hub Dimensions, In. Diameter	Hub Dimensions, In. Length	Square Hole Size Broached, In. Standard in Stock	Square Hole Size Broached, In. Maximum on Special Order	Weight, Lbs.
89-224	3-1/2	4-1/2	2-7/8	1-1/16	1-5/16	1/2	5/8	.65
89-225	4	5-1/8	3-1/8	1-1/4	1-3/8	9/16	13/16	.97
89-226	5	6-1/8	3-1/8	1-1/4	1-13/16	5/8	13/16	1.21
89-228	6	7-1/8	3-1/8	1-1/4	1-15/16	11/16	13/16	1.15
89-230	7	8-1/4	3-3/8	1-3/8	2-1/16	3/4	7/8	1.51

Unfinished Crank Handles

Plain forging, without hole in hub.

Product Number	Length, In. Center to Center	Length, In. Extreme	Handle Above Arm, In.	Hub Dimensions, In. Diameter	Hub Dimensions, In. Length	Square Hole Size Broached, In. Standard in Stock	Square Hole Size Broached, In. Maximum on Special Order	Weight, Lbs.
89-245	4	5-1/8	3-1/8	1-1/4	1-3/8	9/16	13/16	.97
89-246	5	6-1/8	3-1/8	1-1/4	1-13/16	5/8	13/16	1.21
89-248	6	7-1/8	3-1/8	1-1/4	1-15/16	11/16	13/16	1.15
89-250	7	8-1/4	3-3/8	1-3/8	2-1/16	3/4	7/8	1.51

Armstrong Lathe Dogs

These drop forged lathe dogs are designed to provide all the strength and stiffness you'll need. Black finish.

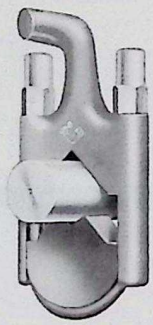
Bent Tail With Square Head Screw

Product Number	Capacity, Inches	Weight, Lbs.
89-302	1/2	.41
89-303	3/4	.57
89-304	1	.95
89-305	1-1/4	1.23
89-306	1-1/2	2.24
89-308	2	3.69
89-309	2-1/2	5.44
89-310	3	7.94

Bent Tail With Hex Set Screw

These drop forged lathe dogs are designed to provide all the strength and stiffness you'll need. Black finish.

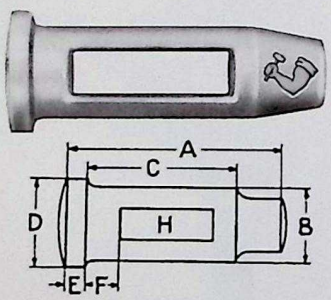
Product Number	Capacity, Inches	Weight, Lbs.
89-342	1/2	.41
89-343	3/4	.57
89-344	1	.95
89-345	1-1/4	1.23
89-346	1-1/2	2.24
89-348	2	3.69
89-349	2-1/2	5.44
89-350	3	7.94



Clamp Lathe Dogs

Body is machined from a malleable iron casting and designed so dog can be applied without removing work from centers.

Product Number	Capacity, Inches	Weight, Lbs.
89-372	3/8 to 1	1.80
89-373	5/8 to 1-1/2	2.86
89-374	7/8 to 2	4.74
89-375	1-1/4 to 3	9.50



Tool Post Fittings

Drop forged from Carbon Steel, these Tool Posts have openings punched out but are otherwise unfinished and are not heat treated.

Product Number	A Length, Inches	B Body Dimensions, In. Dia.,	C Body Dimensions, In. Length	D Base Dimensions, In. Dia.,	E Base Dimensions, In. Length	F Base to Opening Inches	H Opening Size, In.	For Use with Ring	For Use with Wedge	Weight, Lbs.
89-401	2-15/16	1-1/32	2	1-7/32	5/16	7/16	1-5/16 x 7/16	89-421	89-441	.51
89-403	4-1/16	1-1/4	2-7/8	1-5/8	1/4	1/2	1-15/16 x 19/32	89-423	89-443	1.05

Tool Post Rings

Product Number	Outside Diameter, Inches	Inside Diameter, Inches	Edge Thickness, Inches	Radius of Concave, Inches	For Use with Post	For Use with Wedge	Weight, Lbs.
89-421	2-1/4	1-1/16	3/8	3	89-401	89-441	.31
89-423	2-15/16	1-5/16	7/16	2-7/8	89-403	89-443	.60

Tool Post Wedges

Product Number	Length, Inches	Top Width, Inches	Extreme Width, Inches	Extreme Thickness, Inches	Radius, Inches	For Use with Post	For Use with Ring	Weight, Lbs.
89-441	2-13/32	13/32	1/2	11/32	3	89-401	89-421	.07
89-443	3	9/16	21/32	31/64	2-7/8	89-403	89-423	.17

Always wear eye

Drill Drifts

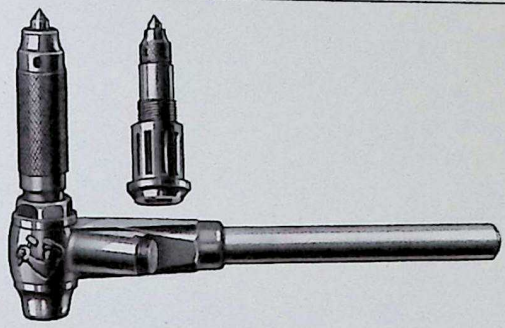
Drill Drifts are drop forged from Carbon Steel and heat treated. Natural finish.

Product Number	Fits Sleeves, Number	Length, Inches	Weight, Lbs.
89-481	1	5	.12
89-483	2	6	.21
89-485	3	7	.41
89-487	4, 5, 6	8-1/2	.82

Reversible Ratchet Drill

Includes Sleeve Ratchet for Morse Taper Shank Drills, and a short Spindle with Feed Screw, which enables ratchet to be converted into a boiler ratchet or adapted to use square taper shank drills. Ideal for use where electric power is not available.

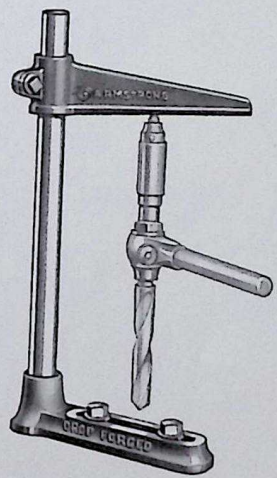
Product Number	Length Number	Drill Socket Size	Weight, Lbs.
89-521	9	Standard Bit Stock and No. 1 Morse	2.28



Drilling Post

For use with Reversible Ratchet Drill. Both foot and arm are drop forged from Carbon Steel, carefully machined and heat treated. Steel post screws into foot and can be easily removed for packing in a tool kit.

Product Number	Post Height, Inches	Post Diameter, Inches	Arm Radius, Inches	Weight, Lbs.
89-531	20	1-1/4	10	17.04



...ildings, see Appendix A.

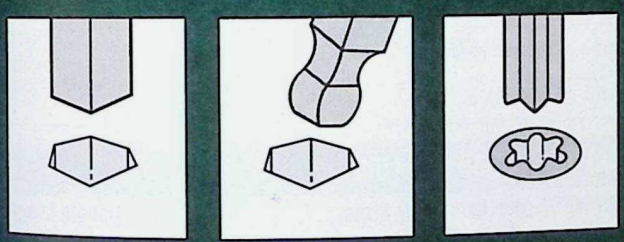
16
Hex Keys and Sets

Hex Keys and Sets

This section features a broad line of fractional and metric Allen® hex keys and sets. Hex keys are available in Standard, Hex-Plus®, Ball End, Ball-Plus and Torx® designs.

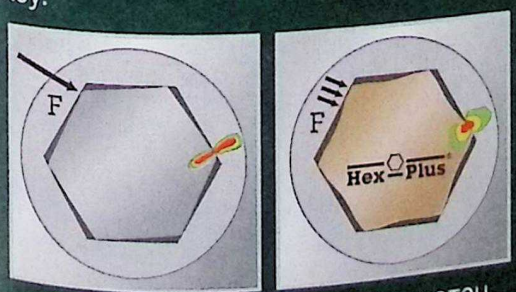
Choose from:

- **Duracast® Fold-Ups**
- **Standard Fold -Ups**
- **Short Arm Hex Keys**
- **Long Arm Hex Keys**
- **Ball End L-Keys**
- **Cushion-Grip T-Handles**
- **Forged T-Handles**
- **Handi Hex™ Drivers**
- **Hex Key Sets**
- **Hex Key Assortments**



We offer a large selection of Hex Keys featuring the exclusive Allen Hex-Plus® design offering these unique advantages:

- Increases the contact surface between the key and the fastener, spreading notch pressure over a greater area.
- Reduces fastener rounding that may occur due to high torque or repetitive tightening and loosening.
- Extends the service life of both the fastener and the key.



NOTCHING ACTION WITH A CONVENTIONAL KEY.

REDUCED NOTCH PRESSURE WITH A HEX-PLUS® KEY.

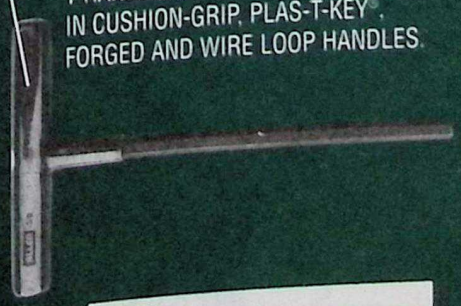
ROTATES TO 270° TO A FIRM STOP FOR BETTER TORQUING AND ACCESS.

SPECIALLY-CONTOURED HANDLE FOR BETTER FEEL AND CONTROL.

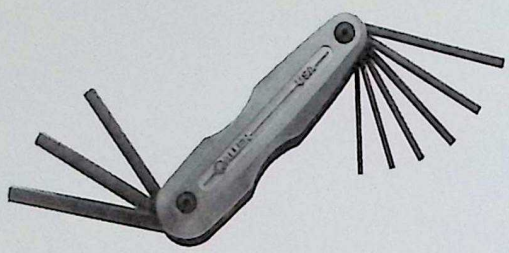
ALL HEX KEYS ARE PRECISION FORMED TO EXACT DIMENSIONAL TOLERANCES FOR PRECISE FIT.

HEAT-TREATED, TEMPERED ALLOY STEEL PROVIDES HIGH STRENGTH AND RESISTANCE TO ROTATIONAL DISTORTION.

T-HANDLE HEX KEYS ARE AVAILABLE IN CUSHION-GRIP, PLAS-T-KEY®, FORGED AND WIRE LOOP HANDLES.



ALLEN®

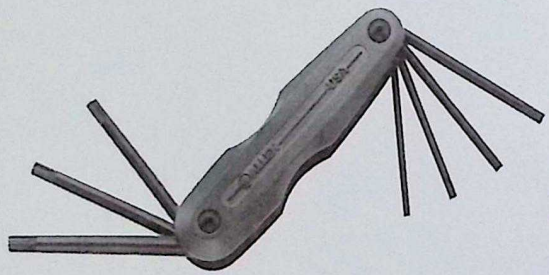


DURACAST® Fold-Ups

Product Number	No. Of Keys	Key Sizes Inches	Handle Length Inches
56346	9	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16	3-1/2
56347	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	4-1/4

DURACAST® fold-up — METRIC

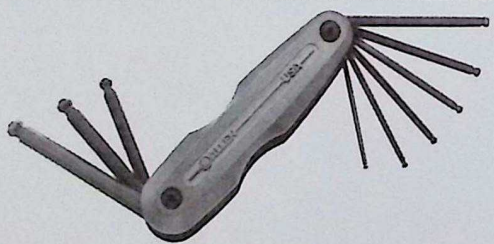
Product Number	No. Of Keys	Key Sizes mm	Handle Length Inches
56349	7	1.5, 2, 2.5, 3, 4, 5, 6	3-1/2



DURACAST® TORX® Fold-Ups

Product Number	No. Of Keys	Key Sizes Torx	Handle Length Inches
56380	7	T-6, T-7, T-8, T-9, T-10, T-15, T-20	3-1/2
56348	7	T-10, T-15, T-20, T-25, T-27, T-30, T-40	4-1/4

Torx® is a registered trademark of CAMCAR, Division of TEXTRON, Inc.

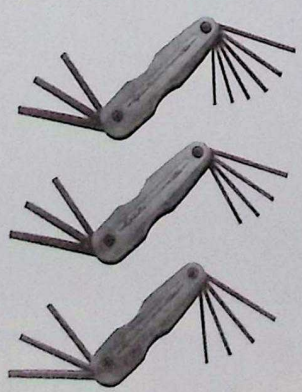


DURACAST® Ball End Fold-Up

Product Number	No. Of Keys	Key Sizes Inches	Handle Length Inches
56382	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	4-1/4

DURACAST® Hex Key/Screwdriver Fold-Up

Product Number	No. Of Keys	Key Sizes mm	Handle Length Inches
56384	6	2, 4, 5, 6 Phillips screwdriver blade Slotted screwdriver blade	4-1/4

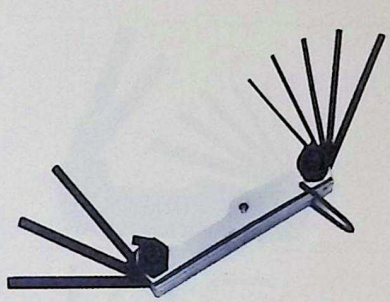


DURACAST® 3 Piece Fold-Up Set 56357—in Vinyl Pouch

Product Number	No. Of Keys	Key Sizes Inches	Key Sizes mm	Key Sizes Torx	Handle Length Inches
56346	9	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16			3-1/2
56349	7		1.5, 2, 2.5, 3, 4, 5, 6		3-1/2
56348	7			T-10, T-15, T-20, T-25, T-27, T-30, T-40	4-1/4

Standard Fold-Ups

Product Number	Type	No. Of Keys	Key Sizes Inches	Handle Length Inches
56066	uncarded	9	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16	3-3/8
56321	carded	9	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16	3-3/8
56114	uncarded	8	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32	3
56314	carded	8	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32	3
56067	uncarded	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	3-3/4
56316	carded	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	3-3/4

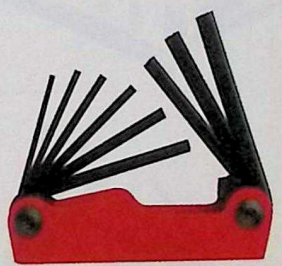


Standard Fold-Ups — METRIC

Product Number	Type	No. Of Keys	Key Sizes mm	Handle Length Inches/mm
56070	uncarded	7	1.5, 2, 2.5, 3, 4, 5, 6	3-3/4 (95mm)
56360	carded	7	1.5, 2, 2.5, 3, 4, 5, 6	3-3/4 (95mm)

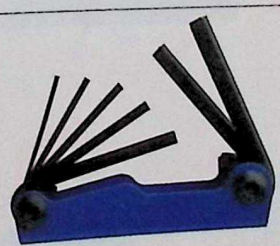
Standard HI-VIS™ Fold-Ups

Product Number	Type	No. Of Keys	Key Sizes Inches	Handle Length Inches
56073	uncarded	9	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16	3-3/8
56391	carded	9	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16	3-3/8
56115	uncarded	8	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32	3
56393	carded	8	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32	3



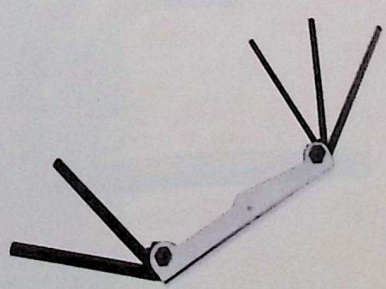
Standard HI-VIS™ Fold-Ups — METRIC

Product Number	Type	No. Of Keys	Key Sizes mm	Handle Length Inches/mm
56076	uncarded	7	1.5, 2, 2.5, 3, 4, 5, 6	3-3/4 (95mm)
56395	carded	7	1.5, 2, 2.5, 3, 4, 5, 6	3-3/4 (95mm)



Long Fold-Ups

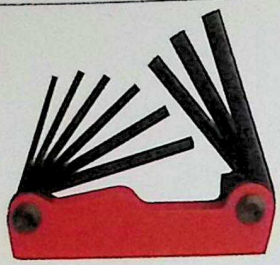
Product Number	Type	No. Of Keys	Key Sizes Inches	Handle Length Inches
56068	uncarded	5	3/16, 7/32, 1/4, 5/16, 3/8	6-3/8
56320	carded	5	3/16, 7/32, 1/4, 5/16, 3/8	6-3/8
56118	uncarded	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	6-3/8
56318	carded	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	6-3/8



Long Fold-Ups — METRIC

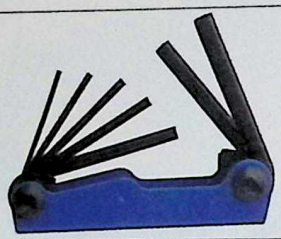
Product Number	Type	No. Of Keys	Key Sizes mm	Handle Length Inches/mm
56072	uncarded	5	4, 5, 6, 8, 10	6-3/8 (162mm)
56362	carded	5	4, 5, 6, 8, 10	6-3/8 (162mm)

...Hex Keys, see Appendix A.



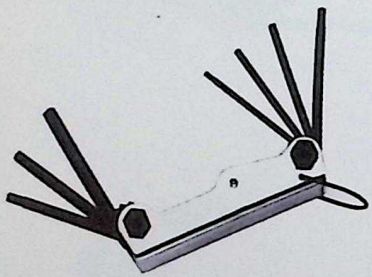
Long HI-VIS™ Fold-Ups

Product Number	Type	No. Of Keys	Key Sizes Inches	Handle Length Inches
56074	uncarded	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	6-3/8
56394	carded	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	6-3/8



Long HI-VIS™ Fold-Ups — METRIC

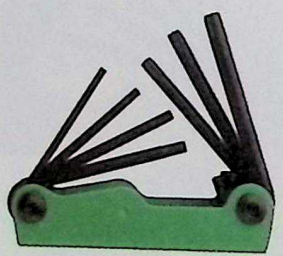
Product Number	Type	No. Of Keys	Key Sizes mm	Handle Length Inches
56077	uncarded	5	4, 5, 6, 8, 10	6-3/8
56396	carded	5	4, 5, 6, 8, 10	6-3/8



TORX® Fold-Ups

Product Number	Type	No. Of Keys	Key Sizes Torx	Handle Length Inches
56896	uncarded	7	T-10, T-15, T-20, T-25, T-27, T-30, T-40	3-3/4
56323	carded	7	T-10, T-15, T-20, T-25, T-27, T-30, T-40	3-3/4

Torx® is a registered trademark of CAMCAR, Division of TEXTRON, Inc.



TORX® HI-VIS™ Fold-Ups

Product Number	Type	No. Of Keys	Key Sizes Torx	Handle Length Inches
56897	uncarded	7	T-10, T-15, T-20, T-25, T-27, T-30, T-40	3-3/4
56392	carded	7	T-10, T-15, T-20, T-25, T-27, T-30, T-40	3-3/4

Torx® is a registered trademark of CAMCAR, Division of TEXTRON, Inc.

Individual Short Arm Hex Keys

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
57002	.028	57018	9/64	57032	1/2
57004	.035	57020	5/32	57034	9/16
57006	.050	57022	3/16	57036	5/8
57008	1/16	57024	7/32	57038	3/4
57010	5/64	57026	1/4	57040	7/8
57012	3/32	57028	5/16	57042	1
57013	7/64	57030	3/8	57044	1-1/4
57014	1/8	57031	7/16	57046	1-1/2

Individual Short Arm Hex Keys — METRIC

Product Number	Key Sizes mm	Product Number	Key Sizes mm	Product Number	Key Sizes mm
57129	0.7	57122	3	57133	12
57131	0.9	57124	4	57134	14
57135	1.3	57126	5	57138	17
57116	1.5	57128	6	57142	19
57118	2	57130	8	57143	22
57120	2.5	57132	10		

TORX® Individual Short Arm Hex Keys

Product Number	Key Sizes Torx	Product Number	Key Sizes Torx	Product Number	Key Sizes Torx
57981	T-6	57986	T-15	57991	T-40
57982	T-7	57987	T-20	57992	T-45
57983	T-8	57988	T-25	57993	T-50
57984	T-9	57989	T-27	57994	T-55
57985	T-10	57990	T-30		

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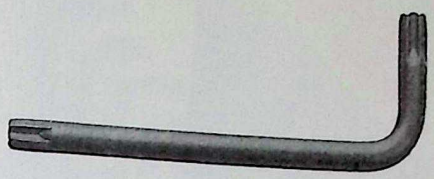
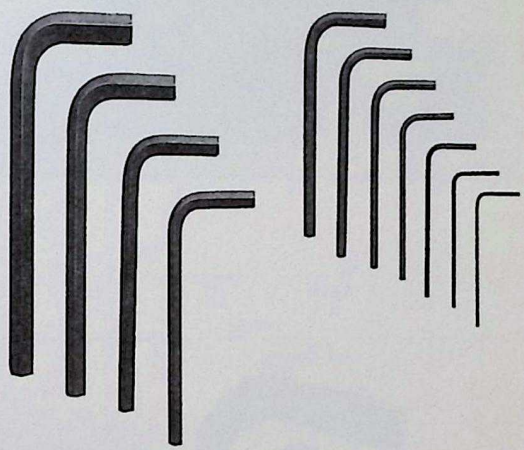


Short Arm Sets — In Vinyl Pouch

Product Number	No. Of Keys	Key Sizes Inches
56100	6	.028, .035, .050, 1/16, 5/64, 3/32
56004	7	5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4
56122	9	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4
56030	11	.050, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
56032	15	.028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
56011	20	.028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4



Short Arm Sets — In Vinyl Pouch METRIC

Product Number	No. Of Keys	Key Sizes mm
56007	7	2, 2.5, 3, 4, 5, 6, 8
56015	9	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

TORX® Short Arm Sets — In Vinyl Pouch

Product Number	No. Of Keys	Key Sizes Torx
56903	6	T-10, T-15, T-20, T-25, T-27, T-30
56901	13	T-7, T-8, T-9, T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-45, T-50, T-55

Torx® is a registered trademark of CAMCAR, Division of TEXTRON, Inc.

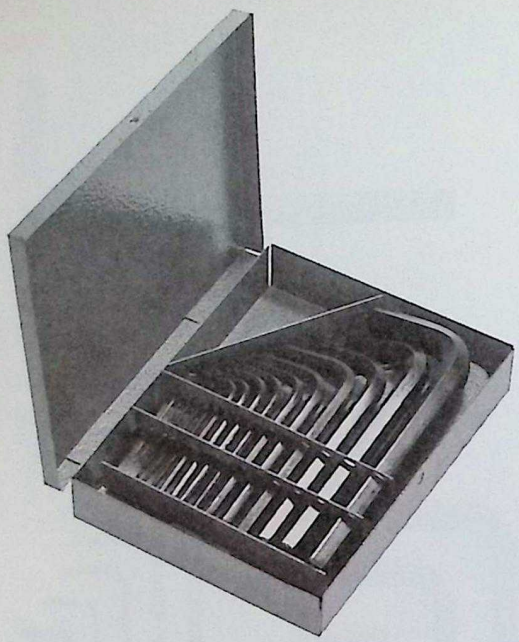
Short Arm Sets — In Plastic Holder

Product Number	No. Of Keys	Type	Key Sizes Inches
56080	13	uncarded	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
56108	12	uncarded	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16
56310	12	carded	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16

Short Arm Set — In Plastic Holder METRIC

Product Number	No. Of Keys	Key Sizes mm
56008	9	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

Appendix A.

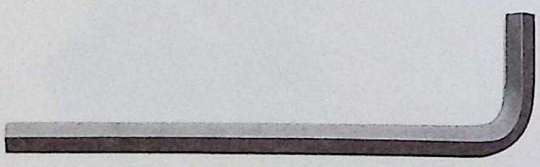


Short Arm Sets — In Metal Box

Product Number	No. Of Keys	Key Sizes Inches
56028	15	.028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
56026	18	.028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8

Short Arm Sets — In Metal Box — METRIC

Product Number	No. Of Keys	Key Sizes mm
56038	12	0.7, 0.9, 1.3, 1.5, 2, 2.5, 3, 4, 6, 8, 10
56036	15	0.7, 0.9, 1.3, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12, 14, 17



Individual Long Arm Hex Keys

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
58007	.035	58014	3/16	58028	5/8
58003	.050	58016	7/32	58030	3/4
58001	1/16	58018	1/4	58032	7/8
58002	5/64	58020	5/16	58034	1
58004	3/32	58022	3/8	58036	1-1/4
58005	7/64	58023	7/16	58038	1-1/2
58006	1/8	58024	1/2	58040	1-3/4
58010	9/64	58026	9/16	58042	2
58012	5/32				

Individual Long Arm Hex Keys — METRIC

Product Number	Key Sizes mm	Product Number	Key Sizes mm	Product Number	Key Sizes mm
58048	0.9	58056	3	58066	10
58049	1.3	58058	4	58068	12
58050	1.5	58060	5	58090	14
58052	2	58062	6	58092	17
58054	2.5	58064	8	58094	19

TORX® Individual Long Arm

Product Number	Key Sizes Torx	Product Number	Key Sizes Torx
58926	T-10	58929	T-25
58927	T-15	58930	T-27
58928	T-20	58931	T-30

Torx® is a registered trademark of CAMCAR, Division of TEXTRON, Inc.

Long Arm Sets — In Vinyl Pouch

Product Number	No. Of Keys	Key Sizes Inches
56150	11	.050, 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
56013	13	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
56014	15	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2, 9/16, 5/8, 3/4

Long Arm Sets — In Vinyl Pouch METRIC

Product Number	No. Of Keys	Key Sizes mm
56018	9	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10
56083	15	0.9, 1.3, 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12, 14, 17, 19

TORX® Long Arm Sets —In Vinyl Pouch

Product Number	No. Of Keys	Key Sizes Torx
56900	6	T-10, T-15, T-20, T-25, T-27, T-30

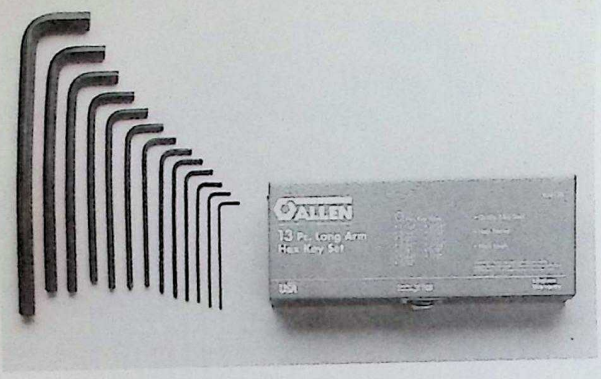
Torx® is a registered trademark of CAMCAR, Division of TEXTRON, Inc.

Long Arm Sets — in Plastic Holder

Product Number	No. Of Keys	Key Sizes Inches
56148	7	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16
56152	12	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16
56081	13	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8

Fractional/Metric Combo Set

Product Number	No. Of Keys	Key Sizes Inches	Key Sizes mm
56009	22	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8	1.5, 2, 2.5, 3, 4, 5, 8, 10



Long Arm Set — In Metal Box

Product Number	No. Of Keys	Key Sizes Inches
56128	13	1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2

Long Arm Set — In Metal Box METRIC

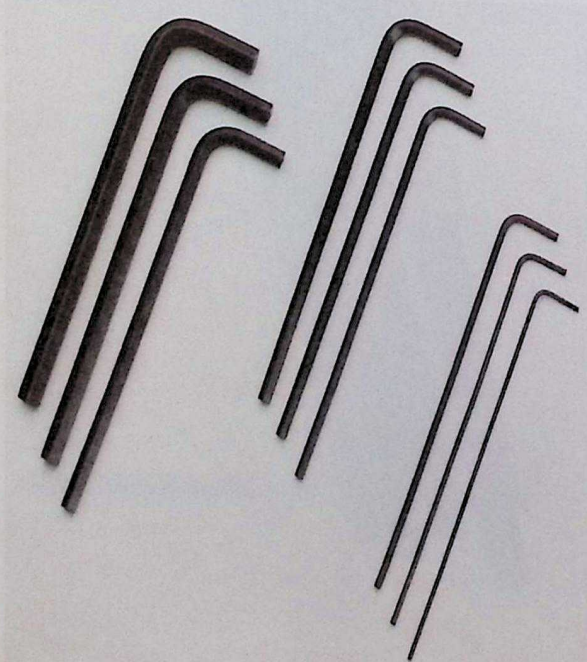
Product Number	No. Of Keys	Key Sizes mm
56085	10	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12

Individual 6" Hex Keys

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
58070	5/64	58078	3/16
58072	3/32	58080	7/32
58073	7/64	58082	1/4
58074	1/8	58020	5/16
58075	9/64	58086	3/8
58076	5/32		

Individual 12" Hex Keys

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
58200	5/64	58208	3/16
58202	3/32	58210	7/32
58204	1/8	58212	1/4
58206	5/32		



6" Hex Key Set

Product Number	No. Of Keys	Key Sizes Inches
56034	9	5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8

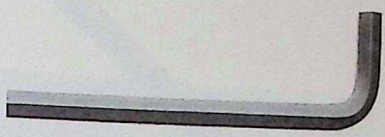
12" Hex Key Set

Product Number	No. Of Keys	Key Sizes Inches
56110	7	5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4

Hex Plus® Individual Long Arm Hex Keys

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
59001	1/16	59006	1/8	59016	7/32
59002	5/64	59010	9/64	59018	1/4
59004	3/32	59012	5/32	59020	5/16
59005	7/64	59014	3/16	59022	3/8

• Hex-Plus® Feature will not be offered on the .050 key. The Allen 58003 is recommended for replacement

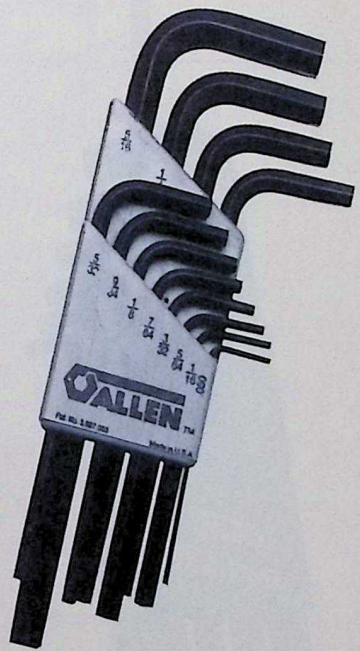


Hex Plus® Individual Long Arm Hex Keys METRIC

Product Number	Key Sizes mm	Product Number	Key Sizes mm	Product Number	Key Sizes mm
59050	1.5	59056	3	59062	6
59052	2	59058	4	59064	8
59054	2.5	59060	5	59066	10

Hex Plus® Sets

Product Number	No. Of Keys	Type	Key Sizes Inches
56037	13	Uncarded	050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
56329	13	Carded	.050, 1/16, 5/64, 3/32,7/64,1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8

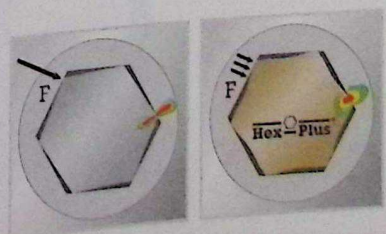


Hex Plus® Sets METRIC

Product Number	No. Of Keys	Type	Key Sizes mm
56025	9	Uncarded	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10
56327	9	Carded	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

Hex Plus® Fractional/Metric Combo Set

Product Number	No. Of Keys	Type	Key Sizes Inches	Key Sizes mm
56333	22	Carded	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

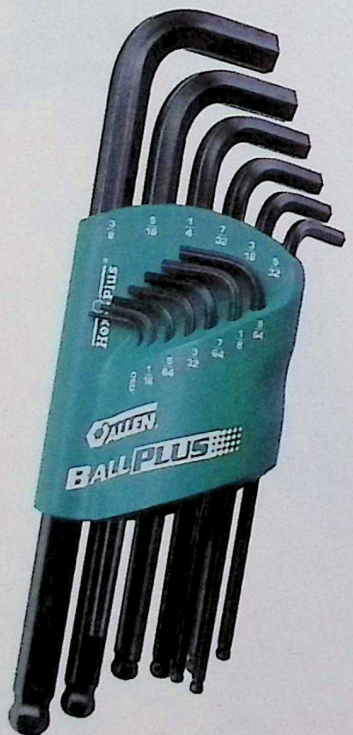


Ball Plus™ Individual Hex Keys

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
59300	.050	59312	9/64	59324	3/8
59302	1/16	59314	5/32	59326	7/16
59304	5/64	59316	3/16	59328	1/2
59306	3/32	59318	7/32	59330	9/16
59308	7/64	59320	1/4	59332	5/8
59310	1/8	59322	5/16	59334	3/4

Ball Plus™ Individual Hex Keys — METRIC

Product Number	Key Sizes mm	Product Number	Key Sizes mm	Product Number	Key Sizes mm
59100	1.5	59110	5	59116	10
59102	2	59111	5.5	59117	11
59104	2.5	59112	6	59118	12
59106	3	59113	7	59120	14
59107	3.5	59114	8	59122	17
59108	4	59115	9	59124	19
59109	4.5				



Ball Plus™ Sets

Product Number	No. Of Keys	Type	Key Sizes Inches
56190	13	caddy - uncarded	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
56193	13	caddy - carded	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
56195	8	pouch	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32
56196	12	caddy - uncarded	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16
56197	10	pouch	1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4
56198	7	caddy - uncarded	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16

Ball Plus™ Sets — METRIC

Product Number	No. Of Keys	Type	Key Sizes mm
56191	9	caddy - carded	1.5, 2, 2.5, 3, 4, 5, 6, 8,10
56194	9	caddy - uncarded	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10
56199	6	pouch	1.5, 2, 2.5, 3, 4, 5

Ball Plus™ Fractional/Metric Combo Set

Product Number	No. Of Keys	Type	Key Sizes Inches	Key Sizes mm
56192	22	caddy - carded	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

Ball Plus™ Individual Cushion Grip T-Handles

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
57602*	3/32	57610	5/32	57616	1/4
57604*	7/64	57612	3/16	57618	5/16
57606	1/8	57614	7/3	57620	3/8
57608	9/64				

*Hex End Only

Ball Plus™ Individual Cushion Grip T-Handles METRIC

Product Number	Key Sizes mm	Product Number	Key Sizes mm	Product Number	Key Sizes mm
57632*	2.5	57638	5	57642	8
57634	3	57640	6	57644	10
57636	4				

*Hex End Only

Ball Plus™ Cushion Grip T-Handle Sets

Product Number	No. Of Keys	Type	Key Sizes Inches	Key Sizes mm
56131	6	pouch	5/32, 3/16, 7/32, 1/4, 5/16, 3/8	
56130	10	pouch	3/32*, 7/64*, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8	
56134	11	pouch	5/32, 3/16, 7/32, 1/4, 5/16, 3/8	4, 5, 6, 8, 10

*Hex End Only

Ball Plus™ Cushion Grip T-Handle Sets METRIC

Product Number	No. Of Keys	Type	Key Sizes mm
56133	5	pouch	4, 5, 6, 8, 10
56132	7	pouch	2.5*, 3, 4, 5, 6, 8, 10

*Hex End Only

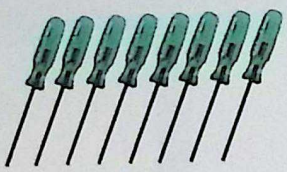
Ball Plus™ Screwdriver Handles

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
57650	.050	57655	1/8	57660	1/4
57651	1/16	57656	9/64	57661	5/16
57652	5/64	57657	5/32	57662	3/8
57653	3/32	57658	3/16	57663	7/16
57654	7/64	57659	7/32	57664	1/2

Ball Plus™ Screwdriver Handles METRIC

Product Number	Key Sizes mm	Product Number	Key Sizes mm	Product Number	Key Sizes mm
57670	1.27	57675	3.5	57680	6
57671	1.5	57676	4	57681	7
57672	2	57677	4.5	57682	8
57673	2.5	57678	5	57683	9
57674	3	57679	5.5	57684	10

Ball Plus™ standard length screwdriver handles and sets available 8/15/97.



Ball Plus™ Screwdriver Handle Sets

Product Number	No. Of Keys	Type	Key Sizes Inches
56180	8	pouch	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32
56181	8	roll	7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16
56182	13	pouch	.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8
56183	7	pouch	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16

Ball Plus™ Screwdriver Handle Sets — METRIC

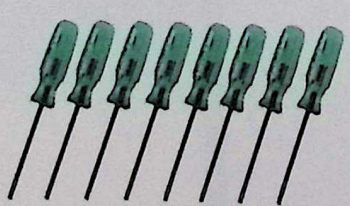
Product Number	No. Of Keys	Type	Key Sizes mm
56185	6	pouch	1.5, 2, 2.5, 3, 4, 5
56186	7	pouch	1.27, 1.5, 2, 2.5, 3, 4, 5
56187	9	pouch	1.5, 2, 2.5, 3, 4, 5, 6, 8, 10

Ball Plus™ Long Length Screwdriver Handles

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
57750	5/64	57754	9/64	57758	1/4
57751	3/32	57755	5/32	57759	5/16
57752	7/64	57756	3/16	57760	3/8
57753	1/8	57757	7/32		

Ball Plus™ Long Length Screwdriver Handles — METRIC

Product Number	Key Sizes mm	Product Number	Key Sizes mm	Product Number	Key Sizes mm
57770	2.0	57773	4	57776	8
57771	2.5	57774	5	57777	10
57772	3.0	57775	6		



Ball Plus™ Long Length Screwdriver Handle Set

Product Number	No. Of Keys	Type	Key Sizes Inches
56184	11	pouch	5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8

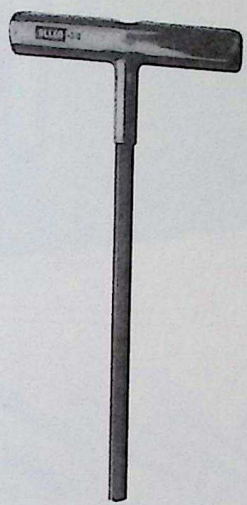
Ball Plus™ Long Length Screwdriver Handle Set — METRIC

Product Number	No. Of Keys	Type	Key Sizes mm
56188	8	pouch	2, 2.5, 3, 4, 5, 6, 8, 10

Ball Plus™ standard length screwdriver handles and sets available 8/15/97.
Ball Plus™ long length screwdriver handles and sets available 10/15/97.

Individual Cushion-Grip T-Handles

Product Number	Key Sizes Inches	Key Length Inches
57300	3/32	6
57302	7/64	6
57304	1/8	6
57306	9/64	6
57308	5/32	6
57310	3/16	6
57312	7/32	6
57314	1/4	6
57316	5/16	6
57318	3/8	6
58250	3/32	9
58252	7/64	9
58254	1/8	9
58256	9/64	9
58258	5/32	9
58260	3/16	9
58262	7/32	9
58264	1/4	9
58266	5/16	9
58268	3/8	9

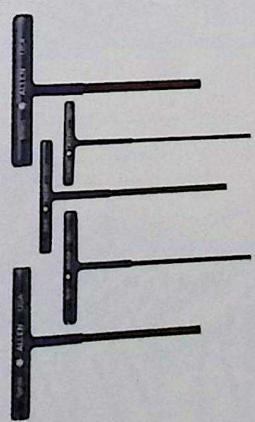


Individual Cushion-Grip T-Handles — METRIC

Product Number	Key Sizes mm	Key Length mm
57842	2.5	150
57844	3	150
57846	4	150
57848	5	150
57850	6	150

Cushion-Grip T-Handle Sets — In Vinyl Pouch

Product Number	No. Of Keys	Key Sizes Inches	Key Length Inches
56161	8	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	6
56164	8	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4	9

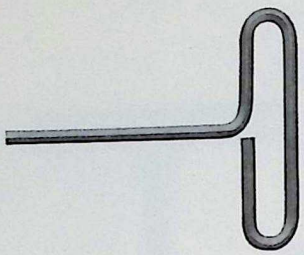


Cushion-Grip T-Handle Set — In Vinyl Pouch — METRIC

Product Number	No. Of Keys	Key Sizes mm	Key Length Inches
56093	5	2.5, 3, 4, 5, 6	6

Cushion-Grip T-Handle Sets — With Metal Stand

Product Number	No. Of Keys	Key Sizes Inches	Key Length Inches
56064	10	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8	6
56163	10	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8	9

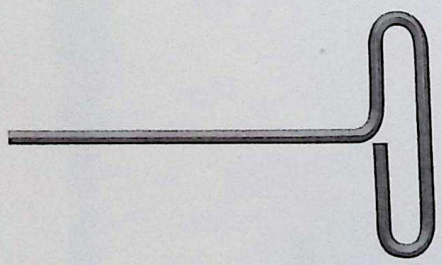


Individual 6" Loop Handle Hex Keys

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
57320	3/32	57325	3/16
57321	7/64	57326	7/32
57322	1/8	57327	1/4
57323	9/64	57328	5/16
57324	5/32	57329	3/8

Individual 6" Loop Handle Hex Keys — METRIC

Product Number	Key Sizes mm	Product Number	Key Sizes mm
57860	2	57864	5
57861	2.5	57865	6
57862	3	57866	8
57863	4	57867	10

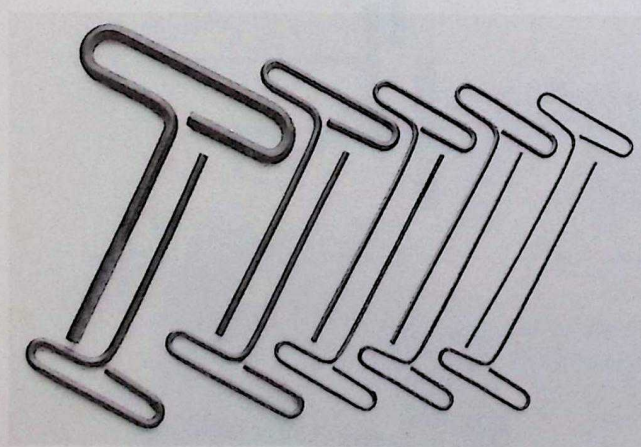


Individual 9" Loop Handle Hex Keys

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
58270	3/32	58275	3/16
58271	7/64	58276	7/32
58272	1/8	58277	1/4
58273	9/64	58278	5/16
58274	5/32	58279	3/8

Individual 9" Loop Handle Hex Keys — METRIC

Product Number	Key Sizes mm	Product Number	Key Sizes mm
58280	2	58284	5
58281	2.5	58285	6
58282	3	58286	8
58283	4	58287	10



6" Loop Handle Sets — In Vinyl Pouch

Product Number	No. Of Keys	Key Sizes Inches
56257	8	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4
56255	10	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8

6" Loop Handle Sets — In Vinyl Pouch — METRIC

Product Number	No. Of Keys	Key Sizes mm	Key Length mm
56261	5	2.5, 3, 4, 5, 6	152
56259	8	2, 2.5, 3, 4, 5, 6, 8, 10	152

6" Loop Handle Sets — With Metal Stand

Product Number	No. Of Keys	Key Sizes Inches
56250	10	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8

6" Loop Handle Sets — With Metal Stand METRIC

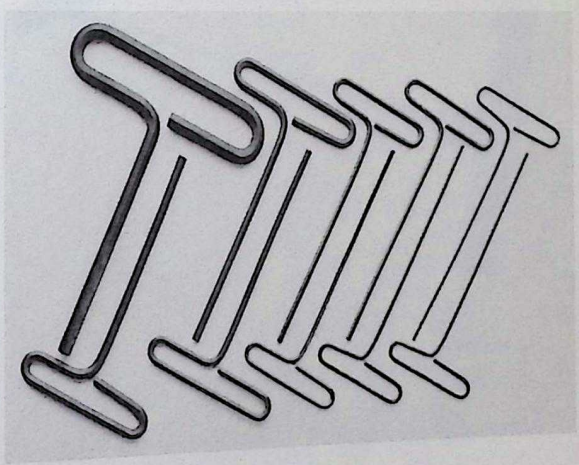
Product Number	No. Of Keys	Key Sizes mm	Key Length mm
56252	8	2, 2.5, 3, 4, 5, 6, 8, 10	152

9" Loop Handle Sets — In Vinyl Pouch

Product Number	No. Of Keys	Key Sizes Inches
56258	8	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4
56256	10	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8

9" Loop Handle Sets — In Vinyl Pouch METRIC

Product Number	No. Of Keys	Key Sizes mm	Key Length mm
56262	5	2.5, 3, 4, 5, 6	229
56260	8	2, 2.5, 3, 4, 5, 6, 8, 10	229

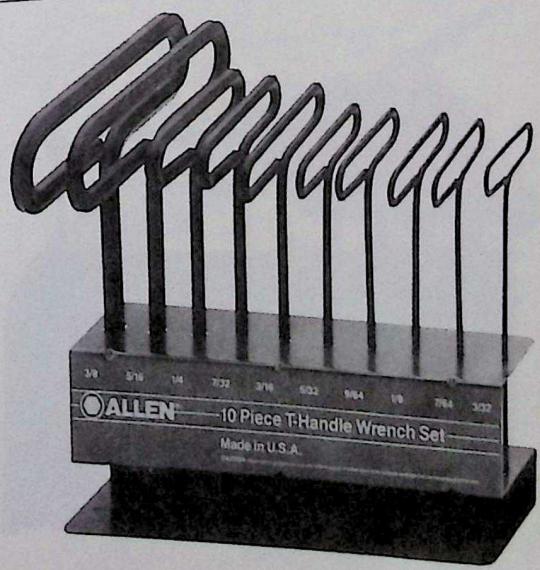


9" Loop Handle Sets — With Metal Stand

Product Number	No. Of Keys	Key Sizes Inches
56251	10	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8

9" Loop Handle Sets — With Metal Stand METRIC

Product Number	No. Of Keys	Key Sizes mm	Key Length mm
56254	8	2, 2.5, 3, 4, 5, 6, 8, 10	229



Individual PLAS-T-KEY®

Product Number	Key Sizes Inches	Key Length Inches
57500	3/32	1-7/8
57502	7/64	2-1/8
57504	1/8	2-5/16
57506	9/64	2-1/2
57508	5/32	2-11/16
57510	3/16	3-3/32
58412	7/32	4-1/2
58414	1/4	4-1/2
58400	3/32	4 1/2
58402	7/64	4 1/2
58404	1/8	4 1/2
58406	9/64	4 1/2
58408	5/32	4 1/2
58410	3/16	4 1/2
58416	5/16	4 1/2
58418	3/8	4 1/2

Individual PLAS-T-KEY® METRIC

Product Number	Key Sizes mm	Product Number	Key Sizes mm
57830	2	57836	4
57832	2.5	57838	5
57834	3	57840	6

TORX® Individual PLAS-T-KEY®

Product Number	Key Sizes Torx	Product Number	Key Sizes Torx
58950	T-10	58953	T-25
58951	T-15	58954	T-27
58952	T-20	58955	T-30

Torx® is a registered trademark of CAMCAR, Division of TEXTRON, Inc.

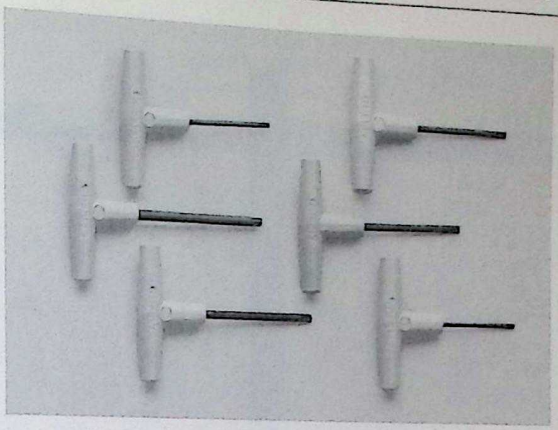
PLAS-T-KEY SET® — With Metal Stand

Product Number	No. Of Keys	Key Sizes Inches	Key Length Inches
56112	10	3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8	6

TORX® PLAS-T-KEY® Set — In Vinyl Pouch

Product Number	No. Of Keys	Key Sizes Torx
56165	6	T-10, T-15, T-20, T-25, T-27, T-30

Torx® is a registered trademark of CAMCAR, Division of TEXTRON, Inc.



Individual Forged T-Handles

Product Number	Key Size Inches	Key Length Inches	Product Number	Key Size Inches	Key Length Inches
56044	3/32	5	56054	3/16	6
56046	7/64	5	56056	7/32	6
56048	1/8	5	56058	1/4	6
56050	9/64	5	56060	5/16	7
56052	5/32	5	56062	3/8	7

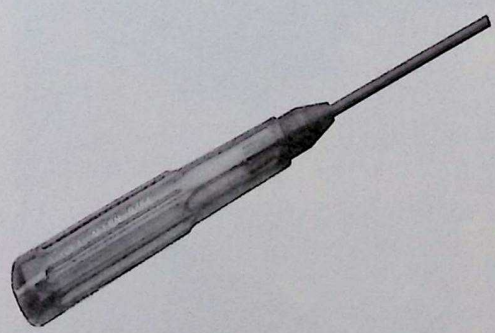
Individual Forged T-Handles METRIC

Product Number	Key Size mm	Key Length mm	Product Number	Key Size mm	Key Length mm
57810	2.5	150	57818	6	150
57812	3	150	57820	8	150
57814	4	150	57822	10	150
57816	5	150			

Individual HANDI-HEX™ Drivers

Handi-Hex Drivers are designed for general use and production assembly operations using socket screw products. Versatile drivers feature adjustable, replaceable Allen Bits. Each handle identified by bit size. Includes key for bit change or adjustment.

Product Number	Key Sizes Inches	Product Number	Key Sizes Inches
57400	.028	57410	3/32
57402	.035	57412	7/64
57404	.050	57414	1/8
57406	1/16	57416	9/64
57408	5/64		

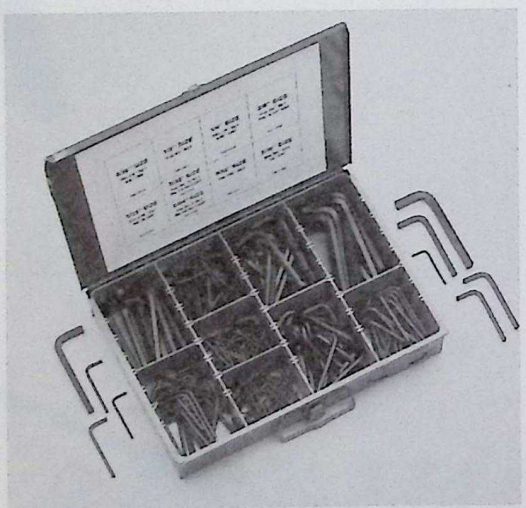


Replacement Straight Bits

Product Number	Key Size Inches	Key Length Inches
57900	.028	2
57902	.035	2
57904	.050	3
57906	1/16	3
57908	1/16	6
57910	5/64	3
57912	5/64	6
57914	3/32	3
57197	3/32	5
57918	3/32	6
57920	7/64	3
57199	7/64	5
57926	1/8	3
57201	1/8	5
57932	9/64	3
57203	9/64	5
57205	5/32	5
57942	5/32	6
57207	3/16	6
57209	7/32	6
57211	1/4	6
57213	5/16	7
57215	3/8	7

Replacement Straight Bits — METRIC

Product Number	Key Size mm	Key Length mm
58536	2.5	150
58538	3	150
58540	4	150
58542	5	150
58544	6	150
58546	8	150
58548	10	150

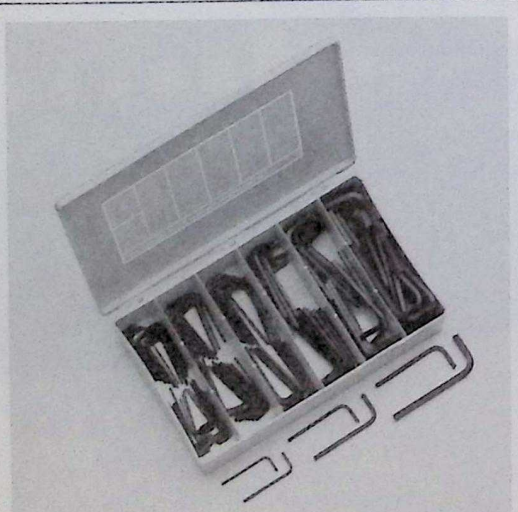


Hex Key Assortment 56882

An assortment of 9 popular sizes of hex keys.

Contains 270 wrenches.

Key Size Inches	Quantity In Box
5/64	50
3/32	50
1/8	50
5/32	25
3/16	25
7/32	25
1/4	25
5/16	10
3/8	10



Hex Key Assortment 56890 — METRIC

An assortment of 7 popular metric hex keys.

Contains 175 keys.

Key Size mm	Quantity In Box
1.5	25
2	25
2.5	25
3	25
4	25
5	25
6	25

Federal and ANSI specifications contained in this catalog are intended as a guide only for tool classification and do not infer that the tool identified is in full compliance with the specification indicated. In addition, where specifications are listed, certain black finish tools may meet full dimensional compliance, except for coatings. For specific information, contact your Armstrong Tools Distributor, Armstrong Tools Sales Representative, or Armstrong Customer Service at 800-866-5753.

Section 2

Product Number	ANSI Spec.	Federal Spec.
10-004—10-018	B107.1	GGG-W-641e
10-106—10-118	B107.1	GGG-W-641e
10-204—10-218	B107.1	GGG-W-641e
10-306—10-318	B107.1	GGG-W-641e
10-406—10-412	B107.1	GGG-W-641e
10-801—10-802	-	GGG-B-1222
10-821—10-823	-	GGG-B-1222
10-918—10-952	B107.10m	GGG-W-641e
10-972—10-972	B107.10m	GGG-W-641e
11-008—11-032	B107.1	GGG-W-641e
11-108—11-132	B107.1	GGG-W-641e
11-208—11-232	B107.1	GGG-W-641e
11-308—11-332	B107.1	GGG-W-641e
11-408—11-420	B107.1	GGG-W-641e
11-501—11-504	-	GGG-W-641e
11-512—11-524	B107.1	GGG-W-641e
11-802—11-805	-	GGG-B-1222
11-821—11-828	-	GGG-B-1222
11-850—11-860	B107.2	GGG-C-1057b
11-908—11-952	B107.10m	GGG-W-641e
11-972—11-974	B107.10m	GGG-W-641e
12-012—12-048	B107.1	GGG-W-641e
12-112—12-148	B107.1	GGG-W-641e
12-212—12-248	B107.1	GGG-W-641e
12-312—12-348	B107.1	GGG-W-641e
12-410—12-432	B107.1	GGG-W-641e
12-504—12-504	-	GGG-W-641e
12-516—12-524	B107.1	GGG-W-641e
12-802—12-805	-	GGG-B-1222
12-821—12-828	-	GGG-B-1222
12-851—12-854	B107.21	GGG-C-1057b
12-859—12-867	B107.21	GGG-C-1057b
12-907—12-952	B107.10m	GGG-W-641e
12-972—12-974	B107.10m	GGG-W-641e
13-124—13-176	B107.1	GGG-W-641e
13-234—13-252	B107.1	GGG-W-641e
13-328—13-352	B107.1	GGG-W-641e
13-906—13-952	B107.10m	GGG-W-641e
14-134—14-212	B107.1	GGG-W-641e
14-906—14-951	B107.10m	GGG-W-641e
18-972—18-972	B107.10m	GGG-W-641e
19-913—19-918	B107.10m	GGG-W-641e
19-972—19-972	B107.10m	GGG-W-641e
20-913—20-918	B107.10m	GGG-W-641e
20-972—20-972	B107.10m	GGG-W-641e
21-906—21-918	B107.10m	GGG-W-641e
22-906—22-906	B107.10m	GGG-W-641e
23-906—23-906	B107.10m	GGG-W-641e
37-004—37-083	B107.5	-
37-204—37-283	B107.5	-
38-006—38-026	B107.5	-
38-106—38-126	B107.5	-
38-206—38-226	B107.5	-
38-306—38-326	B107.5	-
38-850—38-862	B107.2	GGG-C-1057b
39-010—39-036	B107.5	-
39-110—39-036	B107.5	-
39-310—39-332	B107.5	-
40-119—40-160	B107.5	-
40-319—40-360	B107.5	-

Section 5

Product Number	ANSI Spec.	Federal Spec.
17-434—17-496	B107.2	GGG-W-660a
17-592—17-598	B107.2	GGG-W-660a
18-036—18-046	B107.3	GGG-W-660a
18-921—18-923	B107.10m	GGG-W-641e
19-008—19-024	B107.3	GGG-W-660a
19-080—19-088	B107.3	GGG-W-660a
19-208—19-224	B107.2	GGG-W-660a
19-512—19-524	B107.3	GGG-W-660a
19-562—19-574	B107.3	GGG-W-660a
19-922—19-952	B107.10m	GGG-W-641e
20-012—20-048	B107.2	GGG-W-660a
20-212—20-248	B107.2	GGG-W-660a
20-412—20-432	B107.2	GGG-W-660a
20-516—20-524	B107.3	GGG-W-660a
20-566—20-582	B107.3	GGG-W-660a
20-923—20-953	B107.2	GGG-W-660a
20-996—20-996	B107.10m	GGG-W-641e
21-016—21-054	B107.2	GGG-W-660a
21-218—21-254	B107.2	GGG-W-660a
21-420—21-446	B107.2	GGG-W-660a
21-923—21-953	B107.2	GGG-W-660a
22-024—22-116	B107.2	GGG-W-660a
22-228—22-276	B107.2	GGG-W-660a
22-424—22-436	B107.2	GGG-W-660a
22-923—22-954	B107.2	GGG-W-660a
23-044—23-160	B107.2	GGG-W-660a
23-924—23-951	B107.2	GGG-W-660a
24-064—24-256	B107.2	GGG-W-660a

Section 7

Product Number	ANSI Spec.	Federal Spec.
30-108—30-132	B107.6	GGG-W-636e
30-208—30-288	B107.6	GGG-W-636e
30-734—30-902	B107.6	GGG-W-636e
31-008—31-096	B107.6	GGG-W-636e
31-314—31-352	-	GGG-W-1405-1
32-453—32-465	-	GGG-W-636e
32-495—32-495	-	GGG-W-636e
32-520—32-564	-	GGG-W-636e
32-628—32-652	-	GGG-W-636e
32-728—32-764	-	GGG-W-636e
32-820—32-864	-	GGG-W-636e
33-034—33-100	-	GGG-W-636e
33-340—33-492	-	GGG-W-636e
33-534—33-612	-	GGG-W-665b
34-101—34-136	-	GGG-W-665b
34-151—34-157	-	GGG-W-665b
34-201—34-243	-	GGG-W-665b
34-301—34-313	-	GGG-W-665b
34-351—34-366	-	GGG-W-665b
34-404—34-418	B107.8m	GGG-W-641e
35-010—35-034	-	GGG-W-641e
35-108—35-116	-	GGG-W-641e
35-310—35-328	-	GGG-W-636e
35-451—35-478	-	GGG-W-636e
35-510—35-532	B107.6	-
56-008—56-119	B107.9	-
56-210—56-224	B107.9	GGG-W-636e
59-032—59-080	-	GGG-W-636e
59-332—59-380	-	

Section 6

Product Number	ANSI Spec.	Federal Spec.
25-004—25-020	B107.6	GGG-W-636e
25-108—25-132	B107.6	GGG-W-636e
25-162—25-174	B107.6	GGG-W-636e
25-208—25-288	B107.6	GGG-W-636e
25-308—25-232	B107.6	GGG-W-636e
25-412—25-432	B107.6	GGG-W-636e
25-458—25-490	B107.6	GGG-W-636e
26-007—26-202	B107.9	-
26-543—26-579	B107.6	GGG-W-636e
26-643—26-799	B107.6	GGG-W-636e
27-001—27-031	B107.9	-
27-143—27-206	B107.9	-
27-334—27-481	B107.9	-
27-587—27-604	-	GGG-W-1405-1
27-613—27-628	-	
27-643—27-751	B107.6	GGG-W-636e
27-812—27-864	B107.6	GGG-W-636e
27-903—27-920	B107.6	GGG-W-636e
28-024—28-080	-	GGG-W-636e
28-130—28-150	B107.6	GGG-W-636e
28-212—28-228	B107.6	GGG-W-636e
28-404—28-424	B107.8m	GGG-W-631b
28-454—28-465	B107.8m	GGG-W-631b
52-004—52-083	B107.9	-
52-109—52-121	B107.9	-
52-160—52-169	B107.9	-
52-206—52-250	B107.9	-
52-306—52-319	B107.9	-
52-410—52-421	B107.9	-
52-456—52-482	B107.9	-
53-616—53-775	B107.9	-
54-016—54-475	B107.6	GGG-W-636e
54-902—54-911	B107.9	-

Section 8

Product Number	ANSI Spec.	Federal Spec.
64-002—64-005	B107.14m	GGG-W-686c
64-031—64-089	B107.14m	GGG-W-686c
64-094—64-099	B107.14m	GGG-W-686c
64-212—64-236	B107.14m	GGG-W-686c
64-292—64-296	B107.14m	GGG-W-686c
64-302—64-358	B107.14m	GGG-W-686c
64-402—64-405	B107.14m	GGG-W-686c
64-407—64-407	B107.14m	GGG-W-686c
64-452—64-455	B107.14m	GGG-W-686c
64-458—64-458	B107.14m	GGG-W-686c
64-502—64-502	B107.14m	GGG-W-686c
64-505—64-515	B107.14m	GGG-W-686c
64-552—64-552	B107.14m	GGG-W-686c
64-562—64-566	B107.14m	GGG-W-686c
64-576—64-576	B107.14m	GGG-W-686c
64-586—64-592	B107.14m	GGG-W-686c
64-622—64-656	-	GGG-W-686c
64-720—64-740	B107.14m	GGG-W-686c
64-810—64-821	-	GGG-W-686c

ARMSTRONG TOOLS A Danaher Brand

ANSI and Federal Specifications

ANSI and Federal Specifications

Section 9

Product Number	ANSI Spec.	Federal Spec.
66-101—66-113	B107.15	GGG-S-121e
66-151—66-166	B107.15	GGG-S-121e
66-201—66-231	B107.15	GGG-S-121e
66-251—66-272	B107.15	GGG-S-121e
66-301—66-303	B107.15	GGG-S-121e
66-325—66-340	B107.15	GGG-S-121e
66-501—66-507	B107.15	GGG-S-121e
66-521—66-530	B107.15	GGG-S-121e
66-541—66-553	B107.15	GGG-S-121e
66-561—66-570	B107.15	GGG-S-121e
66-601—66-613	B107.15	GGG-S-121e
66-626—66-627	B107.15	GGG-S-121e
66-629—66-630	B107.15	GGG-S-121e
66-631—66-632	B107.15	GGG-S-121e
66-639—66-640	B107.15	GGG-S-121e
66-641—66-642	B107.15	GGG-S-121e
66-647—66-648	B107.15	GGG-S-121e
66-655—66-656	B107.15	GGG-S-121e
66-659—66-659	B107.15	GGG-S-121e
66-806—66-820	B107.12	GGG-W-657
66-921—66-927	-	GGG-S-121e

Section 12

Product Number	ANSI Spec.	Federal Spec.
71-400—71-422	-	GGG-P-781d
71-430—71-442	-	GGG-P-781d
71-470—71-480	-	GGG-P-781d
71-490—71-500	-	GGG-P-781d
71-512—71-522	-	GGG-P-781d
71-552—71-552	-	GGG-P-781d
71-572—71-576	-	GGG-P-781d
71-581—71-593	-	GGG-P-781d
71-612—71-612	-	GGG-P-781d
71-614—71-614	-	GGG-P-781d
71-622—71-622	-	GGG-P-781d
71-624—71-624	-	GGG-P-781d
71-627—71-627	-	GGG-P-781d
71-629—71-629	-	GGG-P-781d
71-645—71-645	-	GGG-P-781d
71-651—71-652	-	GGG-P-781d
71-654—71-654	-	GGG-P-781d
71-660—71-661	-	GGG-P-781d
71-662—71-662	-	GGG-P-781d
71-664—71-664	-	GGG-P-781d
71-666—71-666	-	GGG-P-781d
71-668—71-668	-	GGG-P-781d
71-672—71-672	-	GGG-P-781d
71-674—71-674	-	GGG-P-781d
71-682—71-698	-	GGG-P-781d
71-901—71-910	-	GGG-P-781d
71-917—71-919	-	GGG-P-781d
71-921—71-930	-	GGG-P-781d
71-950—71-950	-	GGG-P-781d
71-955—71-957	-	GGG-P-781d
73-006—73-048	-	GGG-W-651e
73-205—73-211	-	GGG-W-651e
73-229—73-237	-	GGG-W-651e
76-179—76-185	-	GGG-V-415A-1
76-301—76-309	-	GGG-C-771d
76-337—76-343	-	GGG-F-451c

Section 10

Product Number	ANSI Spec.	Federal Spec.
67-063—67-069	B107.20m	GGG-P-471e
67-109—67-113	B107.11m	GGG-P-468
67-123—67-123	B107.11m	GGG-P-468
67-155—67-163	B107.11m	GGG-P-468
67-173—67-175	B107.11m	GGG-P-468
67-183—67-183	B107.11m	GGG-P-468
67-195—67-197	B107.11m	GGG-P-468
67-253—67-259	B107.22m	GGG-P-471e
67-295—67-295	B107.22m	GGG-P-471e
67-303—67-307	B107.22m	GGG-P-471e
67-323—67-323	B107.22m	GGG-P-471e
67-331—67-331	B107.22m	GGG-P-471e
67-357—67-369	B107.22m	GGG-P-471e
67-401—67-401	B107.22m	GGG-P-471e
67-441—67-441	B107.22m	GGG-P-471e
67-503—67-503	B107.22m	GGG-P-471e
67-535—67-535	B107.11m	GGG-N-350a
67-555—67-565	B107.19m	GGG-P-480e
67-657—67-661	B107.23m	GGG-P-471e
67-667—67-671	B107.23m	GGG-P-471e
67-677—67-687	B107.23m	GGG-P-471e
67-699—67-699	B107.23m	GGG-P-471e
67-711—67-717	B107.23m	GGG-P-471e
67-767—67-771	B107.19	GGG-P-471e
67-777—67-783	B107.19	GGG-P-471e
67-789—67-791	B107.19	GGG-P-471e
67-831—67-831	-	GGG-P-471e
67-917—67-935	B107.19	GGG-P-480e
67-965—67-983	B107.19	GGG-P-480e
68-025—68-036	B107.19	GGG-P-480e
68-040—68-040	B107.19	GGG-P-480e
68-065—68-067	B107.19	GGG-P-480e
68-069—68-071	B107.19	GGG-P-480e
68-074—68-076	B107.19	GGG-P-480e
68-079—68-079	B107.19	GGG-P-480e
68-080—68-083	B107.19	GGG-P-480e
68-090—68-097	B107.19	GGG-P-480e
68-161—68-199	B107.18m	GGG-W-340b
68-251—68-255	B107.16	GGG-S-291f
68-261—68-263	B107.16	GGG-S-291f
68-271—68-178	B107.16	GGG-S-291f

Section 13

Product Number	ANSI Spec.	Federal Spec.
78-000—78-093	-	GGG-C-406d
78-102—78-119	-	GGG-C-406d
78-303—78-308	-	GGG-C-406d
78-333—78-338	-	GGG-C-406d
78-401—78-413	-	GGG-C-406d
78-431—78-443	-	GGG-C-406d
78-601—78-612	-	GGG-C-406d
78-631—78-642	-	GGG-C-406d
79-204—79-208	-	GGG-V-410a
79-971—79-923	-	GGG-J-51e

Section 15

Product Number	ANSI Spec.	Federal Spec.
89-001—89-016	B18.15	-
89-021—89-036	B18.15	-
89-302—89-310	-	00-D-565a
89-342—89-350	-	00-D-565a
89-372—89-375	-	00-D-565a
89-481—89-487	-	GGG-D-641a
89-521—89-521	-	GGG-D-698a

Section 11

Product Number	ANSI Spec.	Federal Spec.
68-310—68-312	-	GGG-K-494b
69-001—69-033	-	GGG-H-33a
69-065—69-069	-	GGG-H-33a
69-141—69-189	-	GGG-H-33a
69-404—69-420	-	GGG-H-86c
69-490—69-490	-	GGG-H-33a
69-513—69-517	-	GGG-H-33a
69-605—69-605	B173.3	GGG-H-86c
69-621—69-625	B173.3	GGG-H-86c
69-643—69-655	B173.3	GGG-H-86c
69-990—69-990	Z87.1	-
70-101—70-133	B209.2	GGG-P-831e
70-141—70-149	B209.2	GGG-P-831e
70-153—70-167	B209.2	GGG-P-831e
70-187—70-201	B209.2	GGG-P-831e
70-221—70-221	B209.2	GGG-P-831e
70-231—70-241	B209.2	GGG-P-831e
70-251—70-257	B209.2	GGG-P-831e
70-301—70-319	B209.1	GGG-C-313c
70-347—70-369	B209.1	GGG-C-313c
70-391—70-399	B209.1	GGG-C-313c
70-419—70-431	B209.1	GGG-C-313c
70-447—70-455	-	GGG-C-331c
70-481—70-481	-	GGG-C-831e
70-501—70-511	-	GGG-B-101e
70-517—70-521	-	GGG-B-101e
70-601—70-640	-	GGG-G-17b
70-701—70-740	-	GGG-G-17b
70-865—70-865	-	GGG-F-671
70-921—70-929	-	GGG-M-350a
70-943—70-943	-	GGG-F-360b
70-950—70-966	-	GGG-E-936b

Section 14

Product Number	ANSI Spec.	Federal Spec.
83-013—83-041	-	00-H-581a
83-081—83-097	-	00-H-581a
83-147—83-175	-	00-H-581a
83-213—83-225	-	00-H-581a
83-301—83-321	-	00-H-581a
83-341—83-348	-	00-H-581a
83-411—83-412	-	00-H-581a
83-426—83-432	-	00-H-581a
83-531—83-539	-	00-H-581a
83-561—83-567	-	00-H-581a
83-576—83-590	-	00-H-581a
83-623—83-627	-	00-H-581a
83-647—83-651	-	00-H-581a
83-671—83-677	-	00-H-581a
83-691—83-697	-	00-H-581a
83-721—83-845	-	00-H-581a
86-001—86-055	-	00-C-851a
86-257—86-299	-	00-C-851a
86-391—86-427	-	00-C-851a
86-471—86-479	-	00-C-851a
87-401—87-425	-	00-C-845
87-441—87-465	-	00-C-845
87-491—87-493	-	00-C-845
87-521—87-523	-	00-C-845
87-551—87-553	-	00-C-845
87-601—87-625	-	00-C-845
87-721—87-727	-	00-C-845
87-751—87-755	-	00-C-845

Bits For Hex Driver Sockets

Product Number	Description
For 10-703 Hex Driver	
94-503	.050" Std. Bit
For 10-704 Hex Driver	
94-504	1/16" Std. Bit
For 10-705 Hex Driver	
94-505	5/64" Std. Bit
For 10-706 Hex Driver	
94-506	3/32" Std. Bit
For 10-707 Hex Driver	
94-507	7/64" Std. Bit
For 10-708 Hex Driver	
94-508	1/8" Std. Bit
For 10-709 Hex Driver	
94-509	9/64" Std. Bit
For 10-710 Hex Driver	
94-510	5/32" Std. Bit
For 10-711 Hex Driver	
94-511	3/16" Std. Bit
For 10-712 Hex Driver	
94-512	7/32" Std. Bit
For 10-713 Hex Driver	
94-513	1/4" Std. Bit
For 10-714 Hex Driver	
94-514	5/16" Std. Bit
For 10-743 Hex Driver	
94-543	.050" Long Bit
For 10-744 Hex Driver	
94-544	1/16" Long Bit
For 10-745 Hex Driver	
94-545	5/64" Long Bit
For 10-746 Hex Driver	
94-546	3/32" Long Bit
For 10-747 Hex Driver	
94-547	7/64" Long Bit
For 10-748 Hex Driver	
94-548	1/8" Long Bit
For 10-749 Hex Driver	
94-549	9/64" Long Bit
For 10-750 Hex Driver	
94-550	5/32" Long Bit
For 10-755 Hex Driver	
94-551	3/16" Long Bit
For 10-752 Hex Driver	
94-552	7/32" Long Bit
For 10-753 Hex Driver	
94-553	1/4" Long Bit

Product Number	Description
For 10-754 Hex Driver	
94-554	5/16" Long Bit
For 11-708 Hex Driver	
94-508	1/8" Std. Bit
For 11-709 Hex Driver	
94-509	9/64" Std. Bit
For 11-710 Hex Driver	
94-510	5/32" Std. Bit
For 11-711 Hex Driver	
94-511	3/16" Std. Bit
For 11-712 Hex Driver	
94-512	7/32" Std. Bit
For 11-713 Hex Driver	
94-513	1/4" Std. Bit
For 11-714 Hex Driver	
94-514	5/16" Std. Bit
For 11-715 Hex Driver	
94-515	3/8" Std. Bit
For 11-748 Hex Driver	
94-548	1/8" Long Bit
For 11-750 Hex Driver	
94-550	5/32" Long Bit
For 11-751 Hex Driver	
94-551	3/16" Long Bit
For 11-752 Hex Driver	
94-552	7/32" Long Bit
For 11-753 Hex Driver	
94-553	1/4" Long Bit
For 11-754 Hex Driver	
94-554	5/16" Long Bit
For 11-755 Hex Driver	
94-555	3/8" Long Bit
For 12-713 Hex Driver	
94-513	1/4" Std. Bit
For 12-714 Hex Driver	
94-514	5/16" Std. Bit
For 12-715 Hex Driver	
94-515	3/8" Std. Bit
For 12-716 Hex Driver	
94-516	7/16" Std. Bit
For 12-717 Hex Driver	
94-517	1/2" Std. Bit
For 12-718 Hex Driver	
94-518	9/16" Std. Bit
For 12-719 Hex Driver	
94-519	5/8" Std. Bit

Product Number	Description
For 12-721 Hex Driver	
94-521	3/4" Std. Bit
For 12-753 Hex Driver	
94-553	1/4" Long Bit
For 12-754 Hex Driver	
94-554	5/16" Long Bit
For 12-755 Hex Driver	
94-555	3/8" Long Bit
For 12-756 Hex Driver	
94-556	7/16" Long Bit
For 12-757 Hex Driver	
94-557	1/2" Long Bit
For 12-758 Hex Driver	
94-558	9/16" Long Bit
For 12-759 Hex Driver	
94-559	5/8" Long Bit
For 21-718 Hex Driver	
94-518	9/16" Std. Bit
For 21-719 Hex Driver	
94-519	5/8" Std. Bit
For 21-721 Hex Driver	
94-521	3/4" Std. Bit
For 21-723 Hex Driver	
94-523	7/8" Std. Bit
For 21-725 Hex Driver	
94-525	1" Std. Bit
For 37-703 Hex Driver	
94-603	2mm Std. Bit
For 37-704 Hex Driver	
94-604	2.5mm Std. Bit
For 37-705 Hex Driver	
94-605	3mm Std. Bit
For 37-707 Hex Driver	
94-607	4mm Std. Bit
For 37-709 Hex Driver	
94-609	5mm Std. Bit
For 37-711 Hex Driver	
94-611	6mm Std. Bit
For 37-713 Hex Driver	
94-613	8mm Std. Bit
For 38-705 Hex Driver	
94-605	3mm Std. Bit
For 38-707 Hex Driver	
94-607	4mm Std. Bit
For 38-709 Hex Driver	
94-609	5mm Std. Bit

Product Number	Description
For 38-711 Hex Driver	
94-611	6mm Std. Bit
For 38-712 Hex Driver	
94-612	7mm Std. Bit
For 38-713 Hex Driver	
94-613	8mm Std. Bit
For 38-714 Hex Driver	
94-614	9mm Std. Bit
For 38-715 Hex Driver	
94-615	10mm Std. Bit
For 38-747 Hex Driver	
94-607	4mm Long Bit
For 38-749 Hex Driver	
94-609	5mm Long Bit
For 38-751 Hex Driver	
94-611	6mm Long Bit
For 38-752 Hex Driver	
94-612	7mm Long Bit
For 38-753 Hex Driver	
94-613	8mm Long Bit
For 38-755 Hex Driver	
94-615	10mm Long Bit
For 39-711 Hex Driver	
94-611	6mm Std. Bit
For 39-713 Hex Driver	
94-613	8mm Std. Bit
For 39-715 Hex Driver	
94-615	10mm Std. Bit
For 39-717 Hex Driver	
94-617	12mm Std. Bit
For 39-719 Hex Driver	
94-619	14mm Std. Bit
For 39-722 Hex Driver	
94-622	17mm Std. Bit
For 39-724 Hex Driver	
94-624	19mm Std. Bit
For 39-751 Hex Driver	
94-651	6mm Long Bit
For 39-753 Hex Driver	
94-653	8mm Long Bit
For 39-755 Hex Driver	
94-655	10mm Long Bit
For 39-757 Hex Driver	
94-657	12mm Long Bit
For 39-759 Hex Driver	
94-659	14mm Long Bit

Product Number	Description
For 39-762 Hex Driver	
94-662	17mm Long Bit
For 48-719 Hex Driver	
94-619	14mm Std. Bit
For 48-722 Hex Driver	
94-622	17mm Std. Bit
For 48-724 Hex Driver	
94-624	19mm Std. Bit
For 48-725 Hex Driver	
94-625	22mm Std. Bit
For 48-726 Hex Driver	
94-626	24mm Std. Bit
For 10-868 Torx Driver	
94-868	T8 Std. Bit
For 10-870 Torx Driver	
94-870	T10 Std. Bit
For 10-872 Torx Driver	
94-872	T15 Std. Bit
For 10-874 Torx Driver	
94-874	T20 Std. Bit
For 10-876 Torx Driver	
94-876	T25 Std. Bit
For 10-878 Torx Driver	
94-878	T27 Std. Bit
For 10-880 Torx Driver	
94-880	T30 Std. Bit
For 11-870 Torx Driver	
94-870	T10 Std. Bit
For 11-872 Torx Driver	
94-872	T15 Std. Bit
For 11-874 Torx Driver	
94-874	T20 Std. Bit
For 11-876 Torx Driver	
94-876	T25 Std. Bit
For 11-878 Torx Driver	
94-878	T27 Std. Bit

Bits for Torx Driver Sockets

Product Number	Description
For 11-880 Torx Driver	
94-880	T30 Std. Bit
For 11-882 Torx Driver	
94-882	T40 Std. Bit
For 11-884 Torx Driver	
94-884	T45 Std. Bit
For 11-886 Torx Driver	
94-886	T50 Std. Bit
For 11-888 Torx Driver	
94-888	T55 Std. Bit
For 12-878 Torx Driver	
94-878	T27 Std. Bit
For 12-880 Torx Driver	
94-880	T30 Std. Bit
For 12-882 Torx Driver	
94-882	T40 Std. Bit
For 12-884 Torx Driver	
94-884	T45 Std. Bit
For 12-886 Torx Driver	
94-886	T50 Std. Bit

Product Number	Description
For 12-888 Torx Driver	
94-888	T55 Std. Bit
For 12-890 Torx Driver	
94-890	T60 Std. Bit
For 28-404 Adj. Wrench	
94-925	Jaw
94-926	Knurl, Pin and Spring
For 28-406 Adj. Wrench	
94-928	Jaw
94-929	Knurl, Pin and Spring
For 28-408 Adj. Wrench	
94-931	Jaw
94-932	Knurl, Pin and Spring
For 28-410 Adj. Wrench	
94-934	Jaw
94-935	Knurl, Pin and Spring

Adjustable Wrench Parts

Product Number	Description
For 28-412 Adj. Wrench	
94-937	Jaw
94-938	Knurl, Pin and Spring
For 28-415 Adj. Wrench	
94-940	Jaw
94-941	Knurl, Pin and Spring
For 28-418 Adj. Wrench	
94-943	Jaw
94-944	Knurl, Pin and Spring
For 28-424 Adj. Wrench	
94-946	Jaw
94-947	Knurl, Pin and Spring
For 32-490 Adj. Construction Wrench	
94-980	Jaw
94-981	Knurl, Pin and Spring

Product Number	Description
For 34-404 Adj. Wrench	
94-955	Jaw
94-926	Knurl, Pin and Spring
For 34-406 Adj. Wrench	
94-928	Jaw
94-929	Knurl, Pin and Spring
For 34-408 Adj. Wrench	
94-961	Jaw
94-932	Knurl, Pin and Spring
For 34-410 Adj. Wrench	
94-964	Jaw
94-935	Knurl, Pin and Spring
For 34-412 Adj. Wrench	
94-967	Jaw
94-938	Knurl, Pin and Spring

Product Number	Description
For 34-415 Adj. Wrench	
94-970	Jaw
94-941	Knurl, Pin and Spring
For 34-418 Adj. Wrench	
94-973	Jaw
94-944	Knurl, Pin and Spring

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Replacement Parts

Pipe Wrench Parts

Product Number	Description
For 73-006 Pipe Wrench	
95-055	Hook Jaw
95-056	Insert Jaw with Pin
95-057	Adjusting Nut
95-058	Spring Assembly
For 73-008 Pipe Wrench	
95-063	Hook Jaw
95-064	Insert Jaw with Pin
95-065	Adjusting Nut
95-066	Spring Assembly
For 73-009 Pipe Wrench	
95-063	Hook Jaw
95-064	Insert Jaw with Pin
95-065	Adjusting Nut
95-066	Spring Assembly
For 73-010 Pipe Wrench	
95-071	Hook Jaw
95-072	Insert Jaw with Pin
95-073	Adjusting Nut
95-074	Spring Assembly
For 73-011 Pipe Wrench	
95-071	Hook Jaw
95-072	Insert Jaw with Pin
95-073	Adjusting Nut
95-074	Spring Assembly
For 73-012 Pipe Wrench	
95-079	Hook Jaw
95-080	Insert Jaw with Pin
95-081	Adjusting Nut
95-082	Spring Assembly
95-087	Hook Jaw
95-080	Insert Jaw with Pin
95-089	Adjusting Nut
95-090	Spring Assembly
For 73-015 Pipe Wrench	
95-087	Hook Jaw
95-080	Insert Jaw with Pin
95-089	Adjusting Nut
95-090	Spring Assembly

Product Number	Description
For 73-018 Pipe Wrench	
95-095	Hook Jaw
95-096	Insert Jaw with Pin
95-097	Adjusting Nut
95-098	Spring Assembly
For 73-019 Pipe Wrench	
95-095	Hook Jaw
95-096	Insert Jaw with Pin
95-097	Adjusting Nut
95-098	Spring Assembly
For 73-024 Pipe Wrench	
95-103	Hook Jaw
95-104	Insert Jaw with Pin
95-105	Adjusting Nut
95-106	Spring Assembly
For 73-036 Pipe Wrench	
95-111	Hook Jaw
95-112	Insert Jaw with Pin
95-113	Adjusting Nut
95-114	Spring Assembly
For 73-048 Pipe Wrench	
95-119	Hook Jaw
95-120	Insert Jaw with Pin
95-121	Adjusting Nut
95-122	Spring Assembly
For 78-000 C-Clamp	
95-375	Standard Length Screw
For 78-010 C-Clamp	
95-377	Standard Length Screw
For 78-015 C-Clamp	
95-379	Standard Length Screw
For 78-020 C-Clamp	
95-381	Standard Length Screw
For 78-021 C-Clamp	
95-383	Full Length Screw

Chain Tong Parts

Product Number	Description
For 73-203 Chain Tong	
95-146	Flat Chain
95-147	Pair of Jaws
95-148	Bolt and Nut Set
For 73-205 Chain Tong	
95-152	Flat Chain
95-153	Pair of Jaws
95-154	Bolt and Nut Set
For 73-207 Chain Tong	
95-158	Flat Chain
95-159	Pair of Jaws
95-160	Bolt and Nut Set
For 73-209 Chain Tong	
95-164	Flat Chain
95-165	Pair of Jaws
95-166	Bolt and Nut Set
For 73-211 Chain Tong	
95-170	Flat Chain
95-171	Pair of Jaws
95-172	Bolt and Nut Set
For 73-229 Chain Tong	
95-197	Flat Chain
95-198	Pair of Jaws
95-199	Bolt and Nut Set

Product Number	Description
For 73-231 Chain Tong	
95-203	Flat Chain
95-204	Pair of Jaws
95-205	Bolt and Nut Set
For 73-233 Chain Tong	
95-209	Flat Chain
95-210	Pair of Jaws
95-205	Bolt and Nut Set
For 73-235 Chain Tong	
95-215	Flat Chain
95-216	Pair of Jaws
95-217	Bolt and Nut Set
For 73-237 Chain Tong	
95-221	Flat Chain
95-222	Pair of Jaws
95-223	Bolt and Nut Set
For 73-269 Chain Tong	
95-203	Flat Chain

Chain Wrench Parts

Product Number	Description
For 73-295 Chain Wrench	
95-351	Chain with Pin
For 73-299 Chain Wrench	
95-955	Chain with Pin

C-Clamp Parts

Product Number	Description
For 78-030 C-Clamp	
95-385	Standard Length Screw
For 78-031 C-Clamp	
95-387	Full Length Screw
For 78-040 C-Clamp	
95-389	Standard Length Screw
For 78-041 C-Clamp	
95-391	Full Length Screw
For 78-050 C-Clamp	
95-393	Standard Length Screw
For 78-051 C-Clamp	
95-395	Full Length Screw
For 78-060 C-Clamp	
95-397	Full Length Screw
For 78-061 C-Clamp	
95-399	Standard Length Screw
For 78-080 C-Clamp	
95-401	Standard Length Screw
For 78-081 C-Clamp	
95-403	Full Length Screw
For 78-090 C-Clamp	
95-401	Standard Length Screw
For 78-091 C-Clamp	
95-405	Full Length Screw
For 78-092 C-Clamp	
95-401	Standard Length Screw
For 78-093 C-Clamp	
95-407	Full Length Screw
For 78-102 C-Clamp	
95-410	Standard Length **Screw with Handle**
95-411	Swivel Pad
For 78-103 C-Clamp	
95-414	Standard Length **Screw with Handle**
95-415	Swivel Pad
For 78-104 C-Clamp	
95-418	Standard Length **Screw with Handle**
95-419	Swivel Pad
For 78-106 C-Clamp	
95-418	Standard Length **Screw with Handle**
95-419	Swivel Pad
For 78-107 C-Clamp	
95-422	Full Length Screw **with Handle**
95-419	Swivel Pad
For 78-108 C-Clamp	
95-418	Standard Length Screw with Handle
95-419	Swivel Pad
For 78-109 C-Clamp	
95-424	Full Length Screw with Handle
95-419	Swivel Pad
For 78-110 C-Clamp	
95-418	Standard Length Screw with Handle
95-419	Swivel Pad
For 78-111 C-Clamp	
95-426	Full Length Screw with Handle
95-419	Swivel Pad

Product Number	Description
For 78-112 C-Clamp	
95-429	Standard Length Screw with Handle
95-430	Swivel Pad
For 78-113 C-Clamp	
95-433	Full Length Screw with Handle
95-430	Swivel Pad
For 78-115 C-Clamp	
95-429	Standard Length Screw with Handle
95-430	Swivel Pad
For 78-116 C-Clamp	
95-435	Full Length Screw with Handle
95-430	Swivel Pad
For 78-118 C-Clamp	
95-429	Standard Length Screw with Handle
95-430	Swivel Pad
For 78-119 C-Clamp	
95-437	Full Length Screw with Handle
95-430	Swivel Pad
For 78-303 C-Clamp	
95-458	Standard Length Screw with Handle
95-455	Swivel Pad
For 78-304 C-Clamp	
95-461	Standard Length Screw with Handle
95-462	Swivel Pad
For 78-306 C-Clamp	
95-465	Standard Length Screw with Handle
95-462	Swivel Pad
For 78-308 C-Clamp	
95-468	Standard Length Screw with Handle
95-469	Swivel Pad
For 78-333 C-Clamp	
95-508	Standard Length Screw with Handle
95-505	Swivel Pad
For 78-334 C-Clamp	
95-511	Standard Length Screw with Handle
95-512	Swivel Pad
For 78-336 C-Clamp	
95-515	Standard Length Screw with Handle
95-512	Swivel Pad
For 78-338 C-Clamp	
95-518	Standard Length Screw with Handle
95-519	Swivel Pad
For 78-401, 601 and 631 C-Clamp	
95-450	Standard Length Screw with Handle
95-451	Swivel Pad
For 78-402, 602 and 632 C-Clamp	
95-454	Standard Length Screw with Handle
95-411	Swivel Pad
For 78-403, 603 and 633 C-Clamp	
95-458	Standard Length Screw with Handle
95-411	Swivel Pad

Product Number	Description
For 78-404, 604 and 634 C-Clamps	
95-454	Standard Length Screw with Handle
95-411	Swivel Pad
For 78-406, 606 and 636 C-Clamp	
95-465	Standard Length Screw with Handle
95-415	Swivel Pad
For 78-408, 608 and 638 C-Clamp	
95-468	Standard Length Screw with Handle
95-419	Swivel Pad
For 78-410, 610 and 640 C-Clamps	
95-468	Standard Length Screw with Handle
95-419	Swivel Pad
For 78-411 C-Clamp	
95-472	Full Length Screw with Handle
95-419	Swivel Pad
For 78-412 C-Clamp	
95-475	Standard Length Screw with Handle
95-419	Swivel Pad
For 78-413 C-Clamp	
95-472	Full Length Screw with Handle
95-419	Swivel Pad
For 78-431 C-Clamp	
95-500	Standard Length Screw with Handle
95-501	Swivel Pad
For 78-433 C-Clamp	
95-508	Full Length Screw with Handle
95-505	Swivel Pad
For 78-434 C-Clamp	
95-511	Standard Length Screw with Handle
95-512	Swivel Pad
For 78-436 C-Clamp	
95-515	Standard Length Screw with Handle
95-512	Swivel Pad
For 78-438 C-Clamp	
95-518	Standard Length Screw with Handle
95-519	Swivel Pad
For 78-440 C-Clamp	
95-518	Standard Length **Screw with Handle**
95-519	Swivel Pad
For 78-441 C-Clamp	
95-522	Full Length Screw with Handle
95-519	Swivel Pad
For 78-442 C-Clamp	
95-525	Standard Length Screw with Handle
95-419	Swivel Pad
For 78-443 C-Clamp	
95-529	Full Length Screw with Handle
95-419	Swivel Pad

Basic Mechanic's Set 16-008

10-006 Skt-1/4" Dr, 6-Pt, 3/16"
10-007 Skt-1/4" Dr, 6-Pt, 7/32"
10-008 Skt-1/4" Dr, 6-Pt, 1/4"
10-009 Skt-1/4" Dr, 6-Pt, 9/32"
10-010 Skt-1/4" Dr, 6-Pt, 5/16"
10-011 Skt-1/4" Dr, 6-Pt, 11/32"
10-012 Skt-1/4" Dr, 6-Pt, 3/8"
10-014 Skt-1/4" Dr, 6-Pt, 7/16"
10-016 Skt-1/4" Dr, 6-Pt, 1/2"
10-018 Skt-1/4" Dr, 6-Pt, 9/16"
10-921 Extension, 1/4" Dr, 2"
10-943 Plastic Handle Driver, 1/4" Dr
10-947 Universal Joint, 1/4" Dr
10-972 Ratchet, 1/4" Dr, 4-3/4"
11-112 Skt-3/8" Dr, 12-Pt, 5/16"
11-114 Skt-3/8" Dr, 12-Pt, 7/16"
11-116 Skt-3/8" Dr, 12-Pt, 1/2"
11-118 Skt-3/8" Dr, 12-Pt, 9/16"
11-120 Skt-3/8" Dr, 12-Pt, 5/8"
11-122 Skt-3/8" Dr, 12-Pt, 11/16"
11-124 Skt-3/8" Dr, 12-Pt, 3/4"
11-312 Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314 Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316 Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318 Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320 Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322 Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324 Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-501 Skt-3/8" Dr, Spark Plug, 5/8"
11-504 Skt-3/8" Dr, Spark Plug, 13/16"
11-708 Skt-3/8" Dr, Hex, 1/8"
11-710 Skt-3/8" Dr, Hex, 5/32"
11-711 Skt-3/8" Dr, Hex, 3/16"
11-712 Skt-3/8" Dr, Hex, 7/32"
11-713 Skt-3/8" Dr, Hex, 1/4"
11-918 Hinge Handle, 3/8" Dr
11-922 Extension, 3/8" Dr, 3"
11-923 Extension, 3/8" Dr, 6"
11-927 Extension, 3/8" Dr, 12"
11-935 Speeder, 3/8" Dr
11-947 Universal Joint, 3/8" Dr
11-972 Ratchet, 3/8" Dr, 7-3/8"
12-112 Skt-1/2" Dr, 12-Pt, 3/8"
12-114 Skt-1/2" Dr, 12-Pt, 7/16"
12-116 Skt-1/2" Dr, 12-Pt, 1/2"
12-118 Skt-1/2" Dr, 12-Pt, 9/16"
12-120 Skt-1/2" Dr, 12-Pt, 5/8"
12-122 Skt-1/2" Dr, 12-Pt, 11/16"
12-124 Skt-1/2" Dr, 12-Pt, 3/4"
12-126 Skt-1/2" Dr, 12-Pt, 13/16"
12-128 Skt-1/2" Dr, 12-Pt, 7/8"
12-130 Skt-1/2" Dr, 12-Pt, 15/16"
12-132 Skt-1/2" Dr, 12-Pt, 1"
12-312 Skt-1/2" Dr, 12-Pt, Deep, 3/8"
12-314 Skt-1/2" Dr, 12-Pt, Deep, 7/16"
12-316 Skt-1/2" Dr, 12-Pt, Deep, 1/2"
12-318 Skt-1/2" Dr, 12-Pt, Deep, 9/16"
12-320 Skt-1/2" Dr, 12-Pt, Deep, 5/8"
12-322 Skt-1/2" Dr, 12-Pt, Deep,11/16"
12-324 Skt-1/2" Dr, 12-Pt, Deep, 3/4"
12-326 Skt-1/2" Dr, 12-Pt, Deep,13/16"
12-328 Skt-1/2" Dr, 12-Pt, Deep, 7/8"
12-330 Skt-1/2" Dr, 12-Pt, Deep,15/16"
12-332 Skt-1/2" Dr, 12-Pt, Deep, 1"
12-504 Skt-1/2" Dr, Spark Plug,13/16"
12-714 Skt-1/2" Dr, Hex, 5/16"
12-715 Skt-1/2" Dr, Hex, 3/8"
12-716 Skt-1/2" Dr, Hex, 7/16"
12-717 Skt-1/2" Dr, Hex, 1/2"
12-918 Hinge Handle, 1/2" Dr, 17"
12-921 Extension, 1/2" Dr, 2"
12-923 Extension, 1/2" Dr, 5"
12-924 Extension, 1/2" Dr, 10"
12-935 Speeder, 1/2" Dr
12-947 Universal Joint, 1/2" Dr
12-972 Ratchet, 1/2" Dr, 10-1/2"
13-134 Skt, 3/4" Dr, 12-Pt, 1-1/16"
13-136 Skt, 3/4" Dr, 12-Pt, 1-1/8"
13-140 Skt, 3/4" Dr, 12-Pt, 1-1/4"
13-142 Skt, 3/4" Dr, 12-Pt, 1-5/16"
13-144 Skt, 3/4" Dr, 12-Pt, 1-3/8"
13-146 Skt, 3/4" Dr, 12-Pt, 1-7/16"
13-148 Skt, 3/4" Dr, 12-Pt, 1-1/2"
13-152 Skt, 3/4" Dr, 12-Pt, 1-5/8"
13-906 Ratchet, 3/4" Dr, 19
13-918 Hinge Handle, 3/4" Dr, 22"
13-923 Extension, 3/4" Dr, 8"
13-925 Extension, 3/4" Dr, 16"
13-951 Adapter, 3/4"F to 1/2"M
16-722 Steel Chest, 3-Drawer
25-006 Combo Wr-6-Pt, Short, 3/16"
25-007 Combo Wr-6-Pt, Short, 7/32"
25-208 Combo Wr-12-Pt, 1/4"
25-210 Combo Wr-12-Pt, 5/16"
25-212 Combo Wr-12-Pt, 3/8"
25-214 Combo Wr-12-Pt, 7/16"
25-216 Combo Wr-12-Pt, 1/2"
25-218 Combo Wr-12-Pt, 9/16"
25-220 Combo Wr-12-Pt, 5/8"
25-222 Combo Wr-12-Pt, 11/16"
25-224 Combo Wr-12-Pt, 3/4"
25-226 Combo Wr-12-Pt, 13/16"
25-228 Combo Wr-12-Pt, 7/8"
25-230 Combo Wr-12-Pt, 15/16"
25-232 Combo Wr-12-Pt, 1"
25-234 Combo Wr-12-Pt, 1-1/16"
25-236 Combo Wr-12-Pt, 1-1/8"
25-240 Combo Wr-12-Pt, 1-1/4"
25-242 Combo Wr-12-Pt, 1-5/16"
25-244 Combo Wr-12-Pt, 1-3/8"
25-246 Combo Wr-12-Pt, 1-7/16"
25-248 Combo Wr-12-Pt, 1-1/2"
25-252 Combo Wr-12-Pt, 1-5/8"
28-408 Adjustable Wr-8"
28-410 Adjustable Wr-10"
66-101 Screwdriver-1/4 x 4
66-104 Screwdriver-5/16 x 6
66-157 Screwdriver-3/16 x 3, #1
66-160 Screwdriver-1/4 x 4, # 2
66-163 Screwdriver-5/16 x 6, #3
66-260 Screwdriver-Cabinet, 3/16 x 3
66-263 Screwdriver-Cabinet, 3/16 x 4
66-264 Screwdriver-Cabinet, 3/16 x 5
67-067 Pliers-Lineman's , 8-1/2"
67-113 Pliers-Diagonal Cutting, Heavy Duty 8"
67-305 Pliers-Chain Nose/Cutter, 6-5/8"
67-367 Pliers-Needle Nose, 6-5/8"
67-659 Pliers-Combo Slip Joint, 8"
67-779 Pliers-T & G, 10"
67-781 Pliers-T & G, 12"
69-009 Hammer-Soft Face, 12 Oz.
69-155 Hammer Tip-Tough
69-156 Hammer Tip-Medium Hard
69-448 Hammer-Ball Pein, 1 Lb
70-103 Punch-Pin, 3/32"
70-105 Punch-Pin, 1/8"
70-109 Punch-Pin, 3/16"
70-197 Punch-Long Taper, 1/4"
70-235 Punch-Center, 3/8"
70-305 Chisel-Cold, 3/8"
70-309 Chisel-Cold, 1/2"
70-311 Chisel-Cold, 5/8"
70-313 Chisel-Cold, 3/4"
70-979 Scraper, 13"
56067 Hex Key Set, 9 pc, 5/64" to 1/4"
LP1 10" Locking Pliers, Straight Jaw

Intermediate Mechanic's Set 16-009

10-006 Skt-1/4" Dr, 6-Pt, 3/16"
10-007 Skt-1/4" Dr, 6-Pt, 7/32"
10-008 Skt-1/4" Dr, 6-Pt, 1/4"
10-009 Skt-1/4" Dr, 6-Pt, 9/32"
10-010 Skt-1/4" Dr, 6-Pt, 5/16"
10-011 Skt-1/4" Dr, 6-Pt, 11/32"
10-012 Skt-1/4" Dr, 6-Pt, 3/8"
10-014 Skt-1/4" Dr, 6-Pt, 7/16"
10-016 Skt-1/4" Dr, 6-Pt, 1/2"
10-018 Skt-1/4" Dr, 6-Pt, 9/16"
10-206 Skt-1/4" Dr, 6-Pt, Deep, 3/16"
10-207 Skt-1/4" Dr, 6-Pt, Deep, 7/32"
10-208 Skt-1/4" Dr, 6-Pt, Deep, 1/4"
10-209 Skt-1/4" Dr, 6-Pt, Deep, 9/32"
10-210 Skt-1/4" Dr, 6-Pt, Deep, 5/16"
10-211 Skt-1/4" Dr, 6-Pt, Deep, 11/32"
10-212 Skt-1/4" Dr, 6-Pt, Deep, 3/8"
10-214 Skt-1/4" Dr, 6-Pt, Deep, 7/16"
10-216 Skt-1/4" Dr, 6-Pt, Deep, 1/2"
10-218 Skt-1/4" Dr, 6-Pt, Deep, 9/16"
10-705 Skt-1/4" Dr, Hex, 5/64"
10-706 Skt-1/4" Dr, Hex, 3/32"
10-707 Skt-1/4" Dr, Hex, 7/64"
10-918 Hinge Handle, 1/4" Dr
10-921 Extension, 1/4" Dr, 2"
10-923 Extension, 1/4" Dr, 6"
10-938 T-Handle, 1/4" Dr
10-943 Plastic Handle Driver, 1/4" Dr
10-947 Universal Joint, 1/4" Dr
10-972 Ratchet, 1/4" Dr, 4-3/4"
11-108 Skt-3/8" Dr, 12-Pt, 1/4"
11-110 Skt-3/8" Dr, 12-Pt, 9/32"
11-112 Skt-3/8" Dr, 12-Pt, 5/16"
11-114 Skt-3/8" Dr, 12-Pt, 7/16"
11-116 Skt-3/8" Dr, 12-Pt, 1/2"
11-118 Skt-3/8" Dr, 12-Pt, 9/16"
11-120 Skt-3/8" Dr, 12-Pt, 5/8"
11-122 Skt-3/8" Dr, 12-Pt, 11/16"
11-124 Skt-3/8" Dr, 12-Pt, 3/4"
11-126 Skt-3/8" Dr, 12-Pt, 13/16"
11-128 Skt-3/8" Dr, 12-Pt, 7/8"
11-312 Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314 Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316 Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318 Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320 Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322 Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324 Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-326 Skt-3/8" Dr, 12-Pt, Deep, 13/16"
11-328 Skt-3/8" Dr, 12-Pt, Deep, 7/8"
11-501 Skt-3/8" Dr, Spark Plug, 5/8"
11-504 Skt-3/8" Dr, Spark Plug, 13/16"
11-512 Skt-3/8" Dr, 12-Pt Flex, 3/8"
11-514 Skt-3/8" Dr, 12-Pt Flex, 7/16"
11-516 Skt-3/8" Dr, 12-Pt Flex, 1/2"
11-518 Skt-3/8" Dr, 12-Pt Flex, 9/16"
11-520 Skt-3/8" Dr, 12-Pt Flex, 5/8"
11-522 Skt-3/8" Dr, 12-Pt Flex, 11/16"
11-524 Skt-3/8" Dr, 12-Pt Flex, 3/4"
11-708 Skt-3/8" Dr, Hex, 1/8"
11-710 Skt-3/8" Dr, Hex, 5/32"
11-711 Skt-3/8" Dr, Hex, 3/16"
11-712 Skt-3/8" Dr, Hex, 7/32"
11-713 Skt-3/8" Dr, Hex, 1/4"
11-918 Hinge Handle, 3/8" Dr
11-922 Extension, 3/8" Dr, 3"
11-923 Extension, 3/8" Dr, 6"
11-927 Extension, 3/8" Dr, 12"
11-935 Speeder, 3/8" Dr
11-947 Universal Joint, 3/8" Dr
11-972 Ratchet, 3/8" Dr, 7-3/8"
12-112 Skt-1/2" Dr, 12-Pt, 3/8"
12-114 Skt-1/2" Dr, 12-Pt, 7/16"
12-116 Skt-1/2" Dr, 12-Pt, 1/2"
12-118 Skt-1/2" Dr, 12-Pt, 9/16"
12-120 Skt-1/2" Dr, 12-Pt, 5/8"
12-122 Skt-1/2" Dr, 12-Pt, 11/16"
12-124 Skt-1/2" Dr, 12-Pt, 3/4"
12-126 Skt-1/2" Dr, 12-Pt, 13/16"
12-128 Skt-1/2" Dr, 12-Pt, 7/8"
12-130 Skt-1/2" Dr, 12-Pt, 15/16"
12-132 Skt-1/2" Dr, 12-Pt, 1"
12-134 Skt-1/2" Dr, 12-Pt, 1-1/16"
12-136 Skt-1/2" Dr, 12-Pt, 1-1/8"
12-138 Skt-1/2" Dr, 12-Pt, 1-3/16"
12-140 Skt-1/2" Dr, 12-Pt, 1-1/4"
12-312 Skt-1/2" Dr, 12-Pt, Deep, 3/8"
12-314 Skt-1/2" Dr, 12-Pt, Deep, 7/16"
12-316 Skt-1/2" Dr, 12-Pt, Deep, 1/2"
12-318 Skt-1/2" Dr, 12-Pt, Deep, 9/16"
12-320 Skt-1/2" Dr, 12-Pt, Deep, 5/8"
12-322 Skt-1/2" Dr, 12-Pt, Deep, 11/16"
12-324 Skt-1/2" Dr, 12-Pt, Deep, 3/4"
12-326 Skt-1/2" Dr, 12-Pt, Deep, 13/16"
12-328 Skt-1/2" Dr, 12-Pt, Deep, 7/8"
12-330 Skt-1/2" Dr, 12-Pt, Deep, 15/16"
12-332 Skt-1/2" Dr, 12-Pt, Deep, 1"
12-334 Skt-1/2" Dr, 12-Pt, Deep, 1-1/16"
12-336 Skt-1/2" Dr, 12-Pt, Deep, 1-1/8"
12-340 Skt-1/2" Dr, 12-Pt, Deep, 1-1/4"
12-504 Skt-1/2" Dr, Spark Plug, 13/16"
12-516 Skt-1/2" Dr, 12-Pt Flex, 1/2"
12-518 Skt-1/2" Dr, 12-Pt Flex, 9/16"
12-520 Skt-1/2" Dr, 12-Pt Flex, 5/8"
12-522 Skt-1/2" Dr, 12-Pt Flex, 11/16"
12-524 Skt-1/2" Dr, 12-Pt Flex, 3/4"
12-714 Skt-1/2" Dr, Hex, 5/16"
12-715 Skt-1/2" Dr, Hex, 3/8"
12-716 Skt-1/2" Dr, Hex, 7/16"
12-717 Skt-1/2" Dr, Hex, 1/2"
12-718 Skt-1/2" Dr, Hex, 9/16"
12-719 Skt-1/2" Dr, Hex, 5/8"
12-918 Hinge Handle, 1/2" Dr, 17"
12-921 Extension, 1/2" Dr, 2"
12-923 Extension, 1/2" Dr, 5"
12-924 Extension, 1/2" Dr, 10"
12-935 Speeder, 1/2" Dr
12-947 Universal Joint, 1/2" Dr
12-972 Ratchet, 1/2" Dr, 10-1/2"
13-128 Skt, 3/4" Dr, 12-Pt, 7/8"
13-130 Skt, 3/4" Dr, 12-Pt, 15/16"
13-132 Skt, 3/4" Dr, 12-Pt, 1"
13-134 Skt, 3/4" Dr, 12-Pt, 1-1/16"
13-136 Skt, 3/4" Dr, 12-Pt, 1-1/8"
13-140 Skt, 3/4" Dr, 12-Pt, 1-1/4"
13-142 Skt, 3/4" Dr, 12-Pt, 1-5/16"
13-144 Skt, 3/4" Dr, 12-Pt, 1-3/8"
13-146 Skt, 3/4" Dr, 12-Pt, 1-7/16"
13-148 Skt, 3/4" Dr, 12-Pt, 1-1/2"
13-152 Skt, 3/4" Dr, 12-Pt, 1-5/8"
13-154 Skt, 3/4" Dr, 12-Pt, 1-11/16"
13-156 Skt, 3/4" Dr, 12-Pt, 1-3/4"
13-158 Skt, 3/4" Dr, 12-Pt, 1-13/16"
13-160 Skt, 3/4" Dr, 12-Pt, 1-7/8"
13-164 Skt, 3/4" Dr, 12-Pt, 2"
13-906 Ratchet, 3/4" Dr, 19
13-918 Hinge Handle, 3/4" Dr, 22"
13-923 Extension, 3/4" Dr, 8"
13-925 Extension, 3/4" Dr, 16"
13-951 Adapter, 3/4"F to 1/2"M
16-724 Steel Chest, 10-Drawer
25-006 Combo Wr-6-Pt, Short, 3/16"
25-007 Combo Wr-6-Pt, Short, 7/32"
25-208 Combo Wr-12-Pt, 1/4"
25-210 Combo Wr-12-Pt, 5/16"
25-212 Combo Wr-12-Pt, 3/8"
25-214 Combo Wr-12-Pt, 7/16"
25-216 Combo Wr-12-Pt, 1/2"
25-218 Combo Wr-12-Pt, 9/16"
25-220 Combo Wr-12-Pt, 5/8"
25-222 Combo Wr-12-Pt, 11/16"
25-224 Combo Wr-12-Pt, 3/4"
25-226 Combo Wr-12-Pt, 13/16"
25-228 Combo Wr-12-Pt, 7/8"
25-230 Combo Wr-12-Pt, 15/16"
25-232 Combo Wr-12-Pt, 1"
25-234 Combo Wr-12-Pt, 1-1/16"
25-236 Combo Wr-12-Pt, 1-1/8"
25-240 Combo Wr-12-Pt, 1-1/4"
25-242 Combo Wr-12-Pt, 1-5/16"
25-244 Combo Wr-12-Pt, 1-3/8"
25-246 Combo Wr-12-Pt, 1-7/16"
25-248 Combo Wr-12-Pt, 1-1/2"
25-252 Combo Wr-12-Pt, 1-5/8"
25-254 Combo Wr-12-Pt, 1-11/16"
25-256 Combo Wr-12-Pt, 1-3/4"
25-258 Combo Wr-12-Pt, 1-13/16"
25-260 Combo Wr-12-Pt, 1-7/8"
25-264 Combo Wr-12-Pt, 2"
26-043 O.E. Wr- 3/8" x 7/16"
26-067 O.E. Wr- 1/2" x 9/16"
26-094 O.E. Wr- 5/8" x 11/16"
26-121 O.E. Wr- 3/4" x 13/16"
26-139 O.E. Wr- 7/8" x 15/16"
26-163 O.E. Wr- 1" x 1-1/8"
26-169 O.E. Wr- 1-1/16" x 1-1/4"
27-903 Mini Angle Wr-13/64"
27-904 Mini Angle Wr-15/64"
27-906 Mini Angle Wr-3/16"
27-907 Mini Angle Wr-7/32"
27-908 Mini Angle Wr-1/4"
27-909 Mini Angle Wr-9/32"
27-910 Mini Angle Wr-5/16"
27-911 Mini Angle Wr-11/32"
27-912 Mini Angle Wr-3/8"
27-914 Mini Angle Wr-7/16"
28-408 Adjustable Wr-8"
28-410 Adjustable Wr-10"
29-360 Vinyl Roll
66-101 Screwdriver-1/4 x 4
66-104 Screwdriver-5/16 x 6
66-157 Screwdriver-3/16 x 3, #1
66-160 Screwdriver-1/4 x 4, # 2
66-163 Screwdriver-5/16 x 6, #3
66-166 Screwdriver-3/8 x 8, #4
66-201 Screwdriver-Stubby
66-207 Screwdriver-1/4 x 4
66-216 Screwdriver-5/16 x 6
66-225 Screwdriver-3/8 x 8
66-231 Screwdriver-3/8 x 12
66-251 Screwdriver-Cabinet, 1/8 x 3-1/2"
66-603 Screwdriver-Offset, 1/4 x 4"
66-607 Screwdriver-Offset, 3/8 x 6"
66-609 Screwdriver-Offset, #1 & #2, 4-1/2"
67-067 Pliers-Lineman's , 8-1/2"
67-113 Pliers-Diagonal Cutting, Heavy Duty 8"
67-305 Pliers-Chain Nose/Cutter, 6-5/8"
67-367 Pliers-Needle Nose, 6-5/8"
67-657 Pliers-Combo Slip Joint, 6-1/2"
67-659 Pliers-Combo Slip Joint, 8"
67-717 Pliers-T & G, 5" Ignition
67-779 Pliers-T & G, 10"
67-781 Pliers-T & G, 12"
67-901 Pliers-Cutter/Crimper
69-009 Hammer-Soft Face, 12 Oz.
69-155 Hammer Tip-Tough
69-156 Hammer Tip-Medium Hard
69-448 Hammer-Ball Pein, 1 Lb
69-452 Hammer-Ball Pein, 2 Lbs
70-103 Punch-Pin, 3/32"
70-105 Punch-Pin, 1/8"
70-109 Punch-Pin, 3/16"
70-157 Punch-Solid, 1/8"
70-161 Punch-Solid, 3/16"
70-197 Punch-Long Taper, 1/4"
70-235 Punch-Center, 3/8"
70-255 Punch-Prick, 3/8"
70-305 Chisel-Cold, 3/8"
70-309 Chisel-Cold, 1/2"
70-311 Chisel-Cold, 5/8"
70-313 Chisel-Cold, 3/4"
70-317 Chisel-Cold, 1"
70-503 Pinch Bar-5/8 x 16
70-865 Hacksaw, Flat Frame
70-929 Inspection Mirror, Rectangular
70-933 Magnetic Retrieving Tool
70-979 Scraper, 13"
56067 Hex Key Set, 9 pc, 5/64" to 1/4"
LP1 10" Locking Pliers, Straight Jaw

ARMSTRONG TOOLS
A Danaher Brand

Master Set Contents

Master Mechanic's Set 16-010

10-004 Skt-1/4" Dr, 6-Pt, 1/8"
10-005 Skt-1/4" Dr, 6-Pt, 5/32"
10-006 Skt-1/4" Dr, 6-Pt, 3/16"
10-007 Skt-1/4" Dr, 6-Pt, 7/32"
10-008 Skt-1/4" Dr, 6-Pt, 1/4"
10-009 Skt-1/4" Dr, 6-Pt, 9/32"
10-010 Skt-1/4" Dr, 6-Pt, 5/16"
10-011 Skt-1/4" Dr, 6-Pt, 11/32"
10-012 Skt-1/4" Dr, 6-Pt, 3/8"
10-014 Skt-1/4" Dr, 6-Pt, 7/16"
10-016 Skt-1/4" Dr, 6-Pt, 1/2"
10-018 Skt-1/4" Dr, 6-Pt, 9/16"
10-204 Skt-1/4" Dr, 6-Pt, Deep, 1/8"
10-205 Skt-1/4" Dr, 6-Pt, Deep, 5/32"
10-206 Skt-1/4" Dr, 6-Pt, Deep, 3/16"
10-207 Skt-1/4" Dr, 6-Pt, Deep, 7/32"
10-208 Skt-1/4" Dr, 6-Pt, Deep, 1/4"
10-209 Skt-1/4" Dr, 6-Pt, Deep, 9/32"
10-210 Skt-1/4" Dr, 6-Pt, Deep, 5/16"
10-211 Skt-1/4" Dr, 6-Pt, Deep, 11/32"
10-212 Skt-1/4" Dr, 6-Pt, Deep, 3/8"
10-214 Skt-1/4" Dr, 6-Pt, Deep, 7/16"
10-216 Skt-1/4" Dr, 6-Pt, Deep, 1/2"
10-218 Skt-1/4" Dr, 6-Pt, Deep, 9/16"
10-408 Skt-1/4" Dr, 4-Pt, 3/16"
10-410 Skt-1/4" Dr, 4-Pt, 1/4"
10-412 Skt-1/4" Dr, 8-Pt, 5/16"
10-705 Skt-1/4" Dr, Hex, 5/64"
10-706 Skt-1/4" Dr, Hex, 3/32"
10-707 Skt-1/4" Dr, Hex, 7/64"
10-708 Skt-1/4" Dr, Hex, 1/8"
10-709 Skt-1/4" Dr, Hex, 9/64"
10-710 Skt-1/4" Dr, Hex, 5/32"
10-711 Skt-1/4" Dr, Hex, 3/16"
10-712 Skt-1/4" Dr, Hex, 7/32"
10-713 Skt-1/4" Dr, Hex, 1/4"
10-714 Skt-1/4" Dr, Hex, 5/16"
10-918 Hinge Handle, 1/4" Dr
10-921 Extension, 1/4" Dr, 2"
10-922 Extension, 1/4" Dr, 4"
10-923 Extension, 1/4" Dr, 6"
10-929 Extension, 1/4" Dr, 10"
10-935 Speeder, 1/4" Dr
10-938 T-Handle, 1/4" Dr
10-943 Plastic Handle Driver, 1/4" Dr
10-947 Universal Joint, 1/4" Dr
10-972 Ratchet, 1/4" Dr, 4-3/4"
11-008 Skt-3/8" Dr, 6-Pt, 1/4"
11-010 Skt-3/8" Dr, 6-Pt, 9/32"
11-012 Skt-3/8" Dr, 6-Pt, 3/8"
11-014 Skt-3/8" Dr, 6-Pt, 7/16"
11-016 Skt-3/8" Dr, 6-Pt, 1/2"
11-018 Skt-3/8" Dr, 6-Pt, 9/16"
11-020 Skt-3/8" Dr, 6-Pt, 5/8"
11-022 Skt-3/8" Dr, 6-Pt, 11/16"
11-024 Skt-3/8" Dr, 6-Pt, 3/4"
11-026 Skt-3/8" Dr, 6-Pt, 9/16"
11-028 Skt-3/8" Dr, 6-Pt, 7/8"
11-108 Skt-3/8" Dr, 12-Pt, 1/4"
11-110 Skt-3/8" Dr, 12-Pt, 9/32"
11-112 Skt-3/8" Dr, 12-Pt, 5/16"
11-114 Skt-3/8" Dr, 12-Pt, 7/16"
11-116 Skt-3/8" Dr, 12-Pt, 1/2"
11-118 Skt-3/8" Dr, 12-Pt, 9/16"
11-120 Skt-3/8" Dr, 12-Pt, 5/8"
11-122 Skt-3/8" Dr, 12-Pt, 11/16"
11-124 Skt-3/8" Dr, 12-Pt, 3/4"
11-126 Skt-3/8" Dr, 12-Pt, 13/16"
11-128 Skt-3/8" Dr, 12-Pt, 7/8"
11-308 Skt-3/8" Dr, 12-Pt, Deep, 1/4"
11-310 Skt-3/8" Dr, 12-Pt, Deep, 9/32"
11-312 Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314 Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316 Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318 Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320 Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322 Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324 Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-326 Skt-3/8" Dr, 12-Pt, Deep, 13/16"
11-328 Skt-3/8" Dr, 12-Pt, Deep, 7/8"
11-410 Skt-3/8" Dr, 8-Pt, 5/16"
11-412 Skt-3/8" Dr, 8-Pt, 3/8"
11-414 Skt-3/8" Dr, 8-Pt, 7/16"
11-416 Skt-3/8" Dr, 8-Pt, 1/2"
11-418 Skt-3/8" Dr, 8-Pt, 9/16"
11-420 Skt-3/8" Dr, 8-Pt, 5/8"
11-501 Skt-3/8" Dr, Spark Plug, 5/8"
11-504 Skt-3/8" Dr, Spark Plug, 13/16"
11-512 Skt-3/8" Dr, 12-Pt Flex, 3/8"
11-514 Skt-3/8" Dr, 12-Pt Flex, 7/16"
11-516 Skt-3/8" Dr, 12-Pt Flex, 1/2"
11-518 Skt-3/8" Dr, 12-Pt Flex, 9/16"
11-520 Skt-3/8" Dr, 12-Pt Flex, 5/8"
11-522 Skt-3/8" Dr, 12-Pt Flex, 11/16"
11-524 Skt-3/8" Dr, 12-Pt Flex, 3/4"
11-708 Skt-3/8" Dr, Hex, 1/8"
11-710 Skt-3/8" Dr, Hex, 5/32"
11-711 Skt-3/8" Dr, Hex, 3/16"
11-712 Skt-3/8" Dr, Hex, 7/32"
11-713 Skt-3/8" Dr, Hex, 1/4"
11-714 Skt-3/8" Dr, Hex, 5/16"
11-715 Skt-3/8" Dr, Hex, 3/8"
11-802 Skt-3/8" Dr, Screwdriver, 1/4"
11-803 Skt-3/8" Dr, Screwdriver, 5/16"
11-805 Skt-3/8" Dr, Screwdriver, 3/8"
11-821 Skt-3/8" Dr, Screwdriver, #1
11-822 Skt-3/8" Dr, Screwdriver, #2
11-825 Skt-3/8" Dr, Screwdriver, #3
11-828 Skt-3/8" Dr, Screwdriver, #4
11-918 Hinge Handle, 3/8" Dr
11-921 Extension, 3/8" Dr, 1-1/2"
11-922 Extension, 3/8" Dr, 3"
11-923 Extension, 3/8" Dr, 6"
11-925 Extension, 3/8" Dr, 8"
11-927 Extension, 3/8" Dr, 12"
11-935 Speeder, 3/8" Dr
11-938 T-Handle, 3/8" Dr
11-944 Ratchet Adapter, 3/8" Dr
11-947 Universal Joint, 3/8" Dr
11-972 Ratchet, 3/8" Dr, 7-3/8"
11-974 Ratchet, 3/8" Dr, Flex Head, 9-1/2"
12-012 Skt-1/2" Dr, 6-Pt, 3/8"
12-014 Skt-1/2" Dr, 6-Pt, 7/16"
12-016 Skt-1/2" Dr, 6-Pt, 1/2"
12-018 Skt-1/2" Dr, 6-Pt, 9/16"
12-020 Skt-1/2" Dr, 6-Pt, 5/8"
12-022 Skt-1/2" Dr, 6-Pt, 11/16"
12-024 Skt-1/2" Dr, 6-Pt, 3/4"
12-026 Skt-1/2" Dr, 6-Pt, 13/16"
12-028 Skt-1/2" Dr, 6-Pt, 7/8"
12-030 Skt-1/2" Dr, 6-Pt, 15/16"
12-032 Skt-1/2" Dr, 6-Pt, 1"
12-034 Skt-1/2" Dr, 6-Pt, 1-1/16"
12-036 Skt-1/2" Dr, 6-Pt, 1-1/8"
12-038 Skt-1/2" Dr, 6-Pt, 1-3/16"
12-040 Skt-1/2" Dr, 6-Pt, 1-1/4"
12-112 Skt-1/2" Dr, 12-Pt, 3/8"
12-114 Skt-1/2" Dr, 12-Pt, 7/16"
12-116 Skt-1/2" Dr, 12-Pt, 1/2"
12-118 Skt-1/2" Dr, 12-Pt, 9/16"
12-120 Skt-1/2" Dr, 12-Pt, 5/8"
12-122 Skt-1/2" Dr, 12-Pt, 11/16"
12-124 Skt-1/2" Dr, 12-Pt, 3/4"
12-126 Skt-1/2" Dr, 12-Pt, 13/16"
12-128 Skt-1/2" Dr, 12-Pt, 7/8"
12-130 Skt-1/2" Dr, 12-Pt, 15/16"
12-132 Skt-1/2" Dr, 12-Pt, 1"
12-134 Skt-1/2" Dr, 12-Pt, 1-1/16"
12-136 Skt-1/2" Dr, 12-Pt, 1-1/8"
12-138 Skt-1/2" Dr, 12-Pt, 1-3/16"
12-140 Skt-1/2" Dr, 12-Pt, 1-1/4"
12-312 Skt-1/2" Dr, 12-Pt, Deep, 3/8"
12-314 Skt-1/2" Dr, 12-Pt, Deep, 7/16"
12-316 Skt-1/2" Dr, 12-Pt, Deep, 1/2"
12-318 Skt-1/2" Dr, 12-Pt, Deep, 9/16"
12-320 Skt-1/2" Dr, 12-Pt, Deep, 5/8"
12-322 Skt-1/2" Dr, 12-Pt, Deep, 11/16"
12-324 Skt-1/2" Dr, 12-Pt, Deep, 3/4"
12-326 Skt-1/2" Dr, 12-Pt, Deep, 13/16"
12-328 Skt-1/2" Dr, 12-Pt, Deep, 7/8"
12-330 Skt-1/2" Dr, 12-Pt, Deep, 15/16"
12-332 Skt-1/2" Dr, 12-Pt, Deep, 1"
12-334 Skt-1/2" Dr, 12-Pt, Deep, 1-1/16"
12-336 Skt-1/2" Dr, 12-Pt, Deep, 1-1/8"
12-340 Skt-1/2" Dr, 12-Pt, Deep, 1-1/4"
12-412 Skt-1/2" Dr, 8-Pt, 3/8"
12-414 Skt-1/2" Dr, 8-Pt, 7/16"
12-416 Skt-1/2" Dr, 8-Pt, 1/2"
12-418 Skt-1/2" Dr, 8-Pt, 9/16"
12-420 Skt-1/2" Dr, 8-Pt, 5/8"
12-422 Skt-1/2" Dr, 8-Pt, 11/16"
12-424 Skt-1/2" Dr, 8-Pt, 3/4"
12-426 Skt-1/2" Dr, 8-Pt, 13/16"
12-428 Skt-1/2" Dr, 8-Pt, 7/8"
12-432 Skt-1/2" Dr, 8-Pt, 1"
12-504 Skt-1/2" Dr, Spark Plug, 13/16"
12-516 Skt-1/2" Dr, 12-Pt Flex, 1/2"
12-518 Skt-1/2" Dr, 12-Pt Flex, 9/16"
12-520 Skt-1/2" Dr, 12-Pt Flex, 5/8"
12-522 Skt-1/2" Dr, 12-Pt Flex, 11/16"
12-524 Skt-1/2" Dr, 12-Pt Flex, 3/4"
12-713 Skt-1/2" Dr, Hex, 1/4"
12-714 Skt-1/2" Dr, Hex, 5/16"
12-715 Skt-1/2" Dr, Hex, 3/8"
12-716 Skt-1/2" Dr, Hex, 7/16"
12-717 Skt-1/2" Dr, Hex, 1/2"
12-718 Skt-1/2" Dr, Hex, 9/16"
12-719 Skt-1/2" Dr, Hex, 5/8"
12-802 Skt-1/2" Dr, Screwdriver, 1/4"
12-803 Skt-1/2" Dr, Screwdriver, 5/16"
12-805 Skt-1/2" Dr, Screwdriver, 3/8"
12-821 Skt-1/2" Dr, Screwdriver, #1
12-822 Skt-1/2" Dr, Screwdriver, #2
12-825 Skt-1/2" Dr, Screwdriver, #3
12-828 Skt-1/2" Dr, Screwdriver, #4
12-892 Skt-1/2" Dr, Drag Link, 7/64 x 15/16"
12-918 Hinge Handle, 1/2" Dr, 17"
12-921 Extension, 1/2" Dr, 2"
12-923 Extension, 1/2" Dr, 5"
12-924 Extension, 1/2" Dr, 10"
12-935 Speeder, 1/2" Dr
12-938 T-Handle, 1/2" Dr
12-944 Ratchet Adapter, 1/2" Dr
12-945 Ratchet Spinner, 1/2" Dr
12-947 Universal Joint, 1/2" Dr
12-948 Stud Remover, 1/2" Dr
12-972 Ratchet, 1/2" Dr, 10-1/2"
12-973 Ratchet, 1/2" Dr, 15"
13-128 Skt, 3/4" Dr, 12-Pt, 7/8"
13-130 Skt, 3/4" Dr, 12-Pt, 15/16"
13-132 Skt, 3/4" Dr, 12-Pt, 1"
13-134 Skt, 3/4" Dr, 12-Pt, 1-1/16"
13-136 Skt, 3/4" Dr, 12-Pt, 1-1/8"
13-140 Skt, 3/4" Dr, 12-Pt, 1-1/4"
13-142 Skt, 3/4" Dr, 12-Pt, 1-5/16"
13-144 Skt, 3/4" Dr, 12-Pt, 1-3/8"
13-146 Skt, 3/4" Dr, 12-Pt, 1-7/16"
13-148 Skt, 3/4" Dr, 12-Pt, 1-1/2"
13-152 Skt, 3/4" Dr, 12-Pt, 1-5/8"
13-154 Skt, 3/4" Dr, 12-Pt, 1-11/16"
13-156 Skt, 3/4" Dr, 12-Pt, 1-3/4"
13-158 Skt, 3/4" Dr, 12-Pt, 1-13/16"
13-160 Skt, 3/4" Dr, 12-Pt, 1-7/8"
13-164 Skt, 3/4" Dr, 12-Pt, 2"
13-328 Skt, 3/4" Dr, 12-Pt, Deep,7/8"
13-330 Skt, 3/4" Dr, 12-Pt, Deep,15/16"
13-332 Skt, 3/4" Dr, 12-Pt, Deep,1"
13-334 Skt, 3/4" Dr, 12-Pt, Deep, 1-1/16"
13-336 Skt, 3/4" Dr, 12-Pt, Deep,1-1/8"
13-340 Skt, 3/4" Dr, 12-Pt, Deep,1-1/4"
13-342 Skt, 3/4" Dr, 12-Pt, Deep,1-5/16"
13-344 Skt, 3/4" Dr, 12-Pt, Deep,1-3/8"
13-346 Skt, 3/4" Dr, 12-Pt, Deep,1-7/16"
13-348 Skt, 3/4" Dr, 12-Pt, Deep,1-1/2"
13-352 Skt, 3/4" Dr, 12-Pt, Deep,1-5/8"
13-906 Ratchet, 3/4" Dr, 19
13-918 Hinge Handle, 3/4" Dr, 22"
13-922 Extension, 3/4" Dr, 5"
13-923 Extension, 3/4" Dr, 8"
13-925 Extension, 3/4" Dr, 16"
13-938 T-Handle, 3/4" Dr
13-947 Universal Joint, 3/4" Dr
13-951 Adapter, 3/4"F to 1/2"M
16-760 Steel Chest, 10-Drawer
16-762 Steel Cabinet, 8-Drawer
25-004 Combo Wr-6-Pt, Short, 1/8"
25-005 Combo Wr-6-Pt, Short, 5/32"
25-006 Combo Wr-6-Pt, Short, 3/16"
25-007 Combo Wr-6-Pt, Short, 7/32"
25-008 Combo Wr-6-Pt, Short, 1/4"
25-009 Combo Wr-6-Pt, Short, 9/32"
25-010 Combo Wr-6-Pt, Short, 5/16"
25-111 Combo Wr-12-Pt, Short, 11/32"
25-112 Combo Wr-12-Pt, Short, 3/8"
25-114 Combo Wr-12-Pt, Short, 7/16"
25-116 Combo Wr-12-Pt, Short, 1/2"
25-118 Combo Wr-12-Pt, Short, 9/16"
25-120 Combo Wr-12-Pt, Short, 5/8"
25-122 Combo Wr-12-Pt, Short, 11/16"
25-124 Combo Wr-12-Pt, Short, 3/4"
25-126 Combo Wr-12-Pt, Short, 13/16"
25-128 Combo Wr-12-Pt, Short, 7/8"
25-208 Combo Wr-12-Pt, 1/4"
25-210 Combo Wr-12-Pt, 5/16"
25-212 Combo Wr-12-Pt, 3/8"
25-214 Combo Wr-12-Pt, 7/16"
25-216 Combo Wr-12-Pt, 1/2"
25-218 Combo Wr-12-Pt, 9/16"
25-220 Combo Wr-12-Pt, 5/8"
25-222 Combo Wr-12-Pt, 11/16"
25-224 Combo Wr-12-Pt, 3/4"
25-226 Combo Wr-12-Pt, 13/16"
25-228 Combo Wr-12-Pt, 7/8"
25-230 Combo Wr-12-Pt, 15/16"
25-232 Combo Wr-12-Pt, 1"
25-234 Combo Wr-12-Pt, 1-1/16"
25-236 Combo Wr-12-Pt, 1-1/8"
25-240 Combo Wr-12-Pt, 1-1/4"
25-242 Combo Wr-12-Pt, 1-5/16"
25-244 Combo Wr-12-Pt, 1-3/8"
25-246 Combo Wr-12-Pt, 1-7/16"
25-248 Combo Wr-12-Pt, 1-1/2"
25-252 Combo Wr-12-Pt, 1-5/8"
25-254 Combo Wr-12-Pt, 1-11/16"
25-256 Combo Wr-12-Pt, 1-3/4"
25-258 Combo Wr-12-Pt, 1-13/16"
25-260 Combo Wr-12-Pt, 1-7/8"
25-264 Combo Wr-12-Pt, 2"
26-007 O.E. Wr- 3/16" x 1/4"
26-034 O.E. Wr- 5/16" x 3/8"
26-058 O.E. Wr- 7/16" x 1/2"
26-079 O.E. Wr- 9/16" x 5/8"
26-106 O.E. Wr- 11/16" x 3/4"
26-133 O.E. Wr- 13/16" x 7/8"
26-151 O.E. Wr- 15/16" x 1"
26-166 O.E. Wr- 1-1/16" x 1-1/8"
26-178 O.E. Wr- 1-1/8" x 1-1/4"
26-190 O.E. Wr- 1-3/8" x 1-7/16"
26-202 O.E. Wr- 1-1/2" x 1-5/8"
26-643 15° Box Wr-12-Pt, 3/8" x 7/16"
26-667 15° Box Wr-12-Pt, 1/2" x 9/16"
26-694 15° Box Wr-12-Pt, 5/8" x 11/16"
26-724 15° Box Wr-12-Pt, 3/4" x 7/8"
26-751 15° Box Wr-12-Pt, 15/16" x 1"
26-766 15° Box Wr-12-Pt, 1-1/16" x 1-1/8"
26-778 15° Box Wr-12-Pt, 1-1/4" x 1-5/16"
26-793 15° Box Wr-12-Pt, 1-7/16" x 1-1/2"
27-588 Ratch Box Wr-Straight, 1/4" x 5/16"
27-591 Ratch Box Wr-Straight, 3/8" x 7/16"
27-594 Ratch Box Wr-Straight, 1/2" x 9/16"
27-596 Ratch Box Wr-Straight, 5/8" x 11/16"
27-602 Ratch Box Wr-Straight, 3/4" x 7/8"
27-903 Mini Angle Wr-13/64"
27-904 Mini Angle Wr-15/64"
27-906 Mini Angle Wr-3/16"
27-907 Mini Angle Wr-7/32"
27-908 Mini Angle Wr-1/4"
27-909 Mini Angle Wr-9/32"
27-910 Mini Angle Wr-5/16"
27-911 Mini Angle Wr-11/32"
27-912 Mini Angle Wr-3/8"
27-914 Mini Angle Wr-7/16"
28-130 Flare Nut Wr-3/8" x 7/16"
28-135 Flare Nut Wr-1/2" x 9/16"
28-140 Flare Nut Wr-5/8" x 11/16"
28-145 Flare Nut Wr-3/4" x 1"
28-150 Flare Nut Wr-7/8" x 1-1/8"
28-406 Adjustable Wr-6"
28-408 Adjustable Wr-8"
28-410 Adjustable Wr-10"
28-412 Adjustable Wr-12"
28-418 Adjustable Wr-18"
29-343 Vinyl Roll
29-360 Vinyl Roll
37-004 Skt-1/4" Dr, 6-Pt, 4mm
37-005 Skt-1/4" Dr, 6-Pt, 5mm
37-006 Skt-1/4" Dr, 6-Pt, 6mm
37-007 Skt-1/4" Dr, 6-Pt, 7mm
37-008 Skt-1/4" Dr, 6-Pt, 8mm
37-009 Skt-1/4" Dr, 6-Pt, 9mm
37-010 Skt-1/4" Dr, 6-Pt, 10mm
37-011 Skt-1/4" Dr, 6-Pt, 11mm
37-012 Skt-1/4" Dr, 6-Pt, 12mm
37-013 Skt-1/4" Dr, 6-Pt, 13mm
37-014 Skt-1/4" Dr, 6-Pt, 14mm
37-081 Skt-1/4" Dr, 6-Pt, 4.5mm
37-083 Skt-1/4" Dr, 6-Pt, 5.5mm
37-204 Skt-1/4" Dr, 6-Pt, Deep, 4mm
37-205 Skt-1/4" Dr, 6-Pt, Deep, 5mm
37-206 Skt-1/4" Dr, 6-Pt, Deep, 6mm
37-207 Skt-1/4" Dr, 6-Pt, Deep, 7mm
37-208 Skt-1/4" Dr, 6-Pt, Deep, 8mm
37-209 Skt-1/4" Dr, 6-Pt, Deep, 9mm
37-210 Skt-1/4" Dr, 6-Pt, Deep, 10mm
37-211 Skt-1/4" Dr, 6-Pt, Deep, 11mm
37-212 Skt-1/4" Dr, 6-Pt, Deep, 12mm
37-213 Skt-1/4" Dr, 6-Pt, Deep, 13mm
37-214 Skt-1/4" Dr, 6-Pt, Deep, 14mm
37-281 Skt-1/4" Dr, 6-Pt, Deep, 4.5mm
37-283 Skt-1/4" Dr, 6-Pt, Deep, 5.5mm
37-703 Skt-1/4" Dr, Hex, 2mm
37-704 Skt-1/4" Dr, Hex, 2.5mm
37-705 Skt-1/4" Dr, Hex, 3mm
37-707 Skt-1/4" Dr, Hex, 4mm
37-709 Skt-1/4" Dr, Hex, 5mm
37-711 Skt-1/4" Dr, Hex, 6mm
37-713 Skt-1/4" Dr, Hex, 8mm
38-006 Skt-3/8" Dr, 6-Pt, 6mm
38-007 Skt-3/8" Dr, 6-Pt, 7mm
38-008 Skt-3/8" Dr, 6-Pt, 8mm
38-109 Skt-3/8" Dr, 12-Pt, 9mm
38-110 Skt-3/8" Dr, 12-Pt, 10mm
38-111 Skt-3/8" Dr, 12-Pt, 11mm
38-112 Skt-3/8" Dr, 12-Pt, 12mm
38-113 Skt-3/8" Dr, 12-Pt, 13mm
38-114 Skt-3/8" Dr, 12-Pt, 14mm
38-115 Skt-3/8" Dr, 12-Pt, 15mm
38-116 Skt-3/8" Dr, 12-Pt, 16mm
38-117 Skt-3/8" Dr, 12-Pt, 17mm
38-118 Skt-3/8" Dr, 12-Pt, 18mm
38-119 Skt-3/8" Dr, 12-Pt, 19mm
38-120 Skt-3/8" Dr, 12-Pt, 20mm
38-121 Skt-3/8" Dr, 12-Pt, 21mm
38-122 Skt-3/8" Dr, 12-Pt, 22mm
38-310 Skt-3/8" Dr, 12-Pt, Deep, 10mm
38-311 Skt-3/8" Dr, 12-Pt, Deep, 11mm
38-312 Skt-3/8" Dr, 12-Pt, Deep, 12mm
38-313 Skt-3/8" Dr, 12-Pt, Deep, 13mm
38-314 Skt-3/8" Dr, 12-Pt, Deep, 14mm
38-315 Skt-3/8" Dr, 12-Pt, Deep, 15mm
38-316 Skt-3/8" Dr, 12-Pt, Deep, 16mm
38-317 Skt-3/8" Dr, 12-Pt, Deep, 17mm
38-318 Skt-3/8" Dr, 12-Pt, Deep, 18mm
38-319 Skt-3/8" Dr, 12-Pt, Deep, 19mm
38-320 Skt-3/8" Dr, 12-Pt, Deep, 20mm
38-321 Skt-3/8" Dr, 12-Pt, Deep, 21mm
38-322 Skt-3/8" Dr, 12-Pt, Deep, 22mm
38-705 Skt-3/8" Dr, Hex, 3mm
38-707 Skt-3/8" Dr, Hex, 4mm
38-709 Skt-3/8" Dr, Hex, 5mm
38-711 Skt-3/8" Dr, Hex, 6mm
38-713 Skt-3/8" Dr, Hex, 8mm
38-715 Skt-3/8" Dr, Hex, 10mm
39-110 Skt-1/2" Dr, 12-Pt, 10mm
39-111 Skt-1/2" Dr, 12-Pt, 11mm
39-112 Skt-1/2" Dr, 12-Pt, 12mm
39-113 Skt-1/2" Dr, 12-Pt, 13mm
39-114 Skt-1/2" Dr, 12-Pt, 14mm
39-115 Skt-1/2" Dr, 12-Pt, 15mm
39-116 Skt-1/2" Dr, 12-Pt, 16mm
39-117 Skt-1/2" Dr, 12-Pt, 17mm
39-118 Skt-1/2" Dr, 12-Pt, 18mm
39-119 Skt-1/2" Dr, 12-Pt, 19mm
39-120 Skt-1/2" Dr, 12-Pt, 20mm
39-121 Skt-1/2" Dr, 12-Pt, 21mm
39-122 Skt-1/2" Dr, 12-Pt, 22mm
39-123 Skt-1/2" Dr, 12-Pt, 23mm
39-124 Skt-1/2" Dr, 12-Pt, 24mm
39-125 Skt-1/2" Dr, 12-Pt, 25mm
39-126 Skt-1/2" Dr, 12-Pt, 26mm
39-127 Skt-1/2" Dr, 12-Pt, 27mm
39-130 Skt-1/2" Dr, 12-Pt, 30mm
39-132 Skt-1/2" Dr, 12-Pt, 32mm
39-310 Skt-1/2" Dr, 12-Pt, Deep, 10mm
39-311 Skt-1/2" Dr, 12-Pt, Deep, 11mm
39-312 Skt-1/2" Dr, 12-Pt, Deep, 12mm
39-313 Skt-1/2" Dr, 12-Pt, Deep, 13mm
39-314 Skt-1/2" Dr, 12-Pt, Deep, 14mm
39-315 Skt-1/2" Dr, 12-Pt, Deep, 15mm
39-316 Skt-1/2" Dr, 12-Pt, Deep, 16mm
39-317 Skt-1/2" Dr, 12-Pt, Deep, 17mm
39-318 Skt-1/2" Dr, 12-Pt, Deep, 18mm
39-319 Skt-1/2" Dr, 12-Pt, Deep, 19mm
39-320 Skt-1/2" Dr, 12-Pt, Deep, 20mm
39-321 Skt-1/2" Dr, 12-Pt, Deep, 21mm
39-322 Skt-1/2" Dr, 12-Pt, Deep, 22mm
39-323 Skt-1/2" Dr, 12-Pt, Deep, 23mm
39-324 Skt-1/2" Dr, 12-Pt, Deep, 24mm
39-325 Skt-1/2" Dr, 12-Pt, Deep, 25mm
39-326 Skt-1/2" Dr, 12-Pt, Deep, 26mm
39-327 Skt-1/2" Dr, 12-Pt, Deep, 27mm
39-330 Skt-1/2" Dr, 12-Pt, Deep, 30mm
39-332 Skt-1/2" Dr, 12-Pt, Deep, 32mm
39-711 Skt-1/2" Dr, Hex, 6mm
39-713 Skt-1/2" Dr, Hex, 8mm
39-715 Skt-1/2" Dr, Hex, 10mm
39-717 Skt-1/2" Dr, Hex, 12mm
39-719 Skt-1/2" Dr, Hex,14mm
39-722 Skt-1/2" Dr, Hex,17mm
40-122 Skt-3/4" Dr, 12-Pt, 22mm
40-123 Skt-3/4" Dr, 12-Pt, 23mm
40-124 Skt-3/4" Dr, 12-Pt, 24mm
40-125 Skt-3/4" Dr, 12-Pt, 25mm
40-126 Skt-3/4" Dr, 12-Pt, 26mm
40-127 Skt-3/4" Dr, 12-Pt, 27mm

Master Mechanic's Set 16-010 Cont.

40-130	Skt-3/4" Dr, 12-Pt, 30mm
40-132	Skt-3/4" Dr, 12-Pt, 32mm
40-136	Skt-3/4" Dr, 12-Pt, 36mm
40-141	Skt-3/4" Dr, 12-Pt, 41mm
40-146	Skt-3/4" Dr, 12-Pt, 46mm
40-150	Skt-3/4" Dr, 12-Pt, 50mm
40-322	Skt-3/4" Dr, 12-Pt, Deep, 22mm
40-323	Skt-3/4" Dr, 12-Pt, Deep, 23mm
40-324	Skt-3/4" Dr, 12-Pt, Deep, 24mm
40-327	Skt-3/4" Dr, 12-Pt, Deep, 27mm
40-330	Skt-3/4" Dr, 12-Pt, Deep, 30mm
40-332	Skt-3/4" Dr, 12-Pt, Deep, 32mm
40-336	Skt-3/4" Dr, 12-Pt, Deep, 36mm
40-341	Skt-3/4" Dr, 12-Pt, Deep, 41mm
52-004	Combo Wr-6-Pt Short, 4mm
52-005	Combo Wr-6-Pt Short, 5mm
52-006	Combo Wr-6-Pt Short, 6mm
52-007	Combo Wr-6-Pt Short, 7mm
52-008	Combo Wr-6-Pt Short, 8mm
52-083	Combo Wr-6-Pt Short, 5.5mm
52-109	Combo Wr-12-Pt Short, 9mm
52-210	Combo Wr-12-Pt, 10mm
52-211	Combo Wr-12-Pt, 11mm
52-212	Combo Wr-12-Pt, 12mm
52-213	Combo Wr-12-Pt, 13mm
52-214	Combo Wr-12-Pt, 14mm
52-215	Combo Wr-12-Pt, 15mm
52-216	Combo Wr-12-Pt, 16mm
52-217	Combo Wr-12-Pt, 17mm
52-218	Combo Wr-12-Pt, 18mm
52-219	Combo Wr-12-Pt, 19mm
52-220	Combo Wr-12-Pt, 20mm
52-221	Combo Wr-12-Pt, 21mm
52-222	Combo Wr-12-Pt, 22mm
52-223	Combo Wr-12-Pt, 23mm
52-224	Combo Wr-12-Pt, 24mm
52-225	Combo Wr-12-Pt, 25mm
52-226	Combo Wr-12-Pt, 26mm
52-227	Combo Wr-12-Pt, 27mm
52-230	Combo Wr-12-Pt, 30mm
52-232	Combo Wr-12-Pt, 32mm
52-236	Combo Wr-12-Pt, 36mm
52-241	Combo Wr-12-Pt, 41mm
52-246	Combo Wr-12-Pt, 46mm
64-086	Torque Wrench-1/2" Dr
66-101	Screwdriver-1/4 x 4
66-104	Screwdriver-5/16 x 6
66-107	Screwdriver-3/8 x 8
66-110	Screwdriver-3/8 x 10
66-113	Screwdriver-3/8 x 12
66-151	Screwdriver-#2 Stubby
66-154	Screwdriver-1/8 x 3, #0
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-166	Screwdriver-3/8 x 8, #4
66-201	Screwdriver-Stubby
66-204	Screwdriver-3/16 x 4
66-207	Screwdriver-1/4 x 4
66-210	Screwdriver-1/4 x 6
66-216	Screwdriver-5/16 x 6
66-225	Screwdriver-3/8 x 8
66-228	Screwdriver-3/8 x 10
66-231	Screwdriver-3/8 x 12
66-251	Screwdriver-Cabinet, 1/8 x 3-1/2"
66-260	Screwdriver-Cabinet, 3/16 x 3
66-266	Screwdriver-Cabinet, 3/16 x 6
66-603	Screwdriver-Offset, 1/4 x 4"
66-607	Screwdriver-Offset, 3/8 x 6"
66-609	Screwdriver-Offset, #1 & #2, 4-1/2"
66-613	Screwdriver-Offset, #3 & #4, 6-1/2"
66-808	Nut Driver-1/4"
66-809	Nut Driver-9/32"
66-810	Nut Driver-5/16"
66-811	Nut Driver-11/32"
66-812	Nut Driver-3/8"
66-814	Nut Driver-7/16"
66-816	Nut Driver-1/2"
66-924	Screw Starter-Slotted-5"
66-933	Screw Starter-Phillips-5"
66-943	Nut Starter-5"
67-067	Pliers-Lineman's , 8-1/2"
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-161	Pliers-Diagonal Cutting, 6"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-367	Pliers-Needle Nose, 6-5/8"
67-657	Pliers-Combo Slip Joint, 6-1/2"
67-659	Pliers-Combo Slip Joint, 8"
67-661	Pliers-Combo Slip Joint, 10"
67-717	Pliers-T & G, 5" Ignition
67-779	Pliers-T & G, 10"
67-781	Pliers-T & G, 12"
67-783	Pliers-T & G, 16"
67-901	Pliers-Cutter/Crimper
68-065	Plier Set-Ret Ring
68-070	Plier-Int/Ext Conv, Ret Ring
68-255	Aviation Snip, Straight
68-273	Tin Snips-10" Long Straight
68-293	Tin Snips-10" Duckbill
68-433	Measuring Tape-1/2 x 12'
68-470	Measuring Tape-3/8 x 50'
69-009	Hammer-Soft Face, 12 Oz.
69-019	Hammer-Soft Face, 2 Lbs.
69-155	Hammer Tip-Tough
69-156	Hammer Tip-Medium Hard
69-158	Hammer Tip-Hard
69-165	Hammer Tip-Tough
69-166	Hammer Tip-Medium Hard
69-168	Hammer Tip-Hard
69-444	Hammer-Ball Pein, 8 oz
69-448	Hammer-Ball Pein, 1 Lb
69-452	Hammer-Ball Pein, 2 Lbs
69-490	Mallet-Rubber, 2 Lbs
69-605	Hammer-Hand Drilling, 3 Lbs
70-101	Punch-Pin, 1/16"
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-107	Punch-Pin, 5/32"
70-109	Punch-Pin, 3/16"
70-131	Punch-Pin, 1/4"
70-157	Punch-Solid, 1/8"
70-161	Punch-Solid, 3/16"
70-165	Punch-Solid, 1/4"
70-193	Punch-Long Taper, 3/16"
70-197	Punch-Long Taper, 1/4"
70-235	Punch-Center, 3/8"
70-239	Punch-Center, 1/2"
70-255	Punch-Prick, 3/8"
70-301	Chisel-Cold, 1/4"
70-305	Chisel-Cold, 3/8"
70-309	Chisel-Cold, 1/2"
70-311	Chisel-Cold, 5/8"
70-313	Chisel-Cold, 3/4"
70-315	Chisel-Cold, 7/8"
70-317	Chisel-Cold, 1"
70-347	Chisel-Cold, 5/8 x 12"
70-353	Chisel-Cold, 3/4 x 12"
70-503	Pinch Bar-5/8 x 16
70-505	Pinch Bar-3/8 x 24
70-521	Pry Bar-Rolling Head, 5/8 x 18"
70-793	Feeler Gauge Set, 25 Blades
70-815	Master Go/No-Go Gauge Set, 22 Blades
70-865	Hacksaw, Flat Frame
70-877	Hacksaw Blades
70-925	Inspection Mirror, Round
70-929	Inspection Mirror, Rectangular
70-933	Magnetic Retrieving Tool
70-950	Screw Extractor-for #12 - 5/16 Screws
70-952	Screw Extractor-for 5/16 to 3/8 Screws
70-954	Screw Extractor-for 7/16 to 1/2 Screws
70-956	Screw Extractor-for 1/2 to 9/16 Screws
70-958	Screw Extractor-for 9/16 to 5/8 Screws
70-960	Screw Extractor-for 5/8 to 3/4 Screws
70-962	Screw Extractor-for 3/4 to 1 Screws
70-977	Scraper, 9-1/2"
70-979	Scraper, 13"
71-404	2-/3-Arm Conv Puller
71-432	2-Arm Puller
56032	Hex Key Set, 15 pc, .028" to 3/8"
56036	Hex Key Set, 15 pc, 0.7mm to 17mm
56067	Hex Key Set, 9 pc, 5/64" to 1/4"
56070	Hex Key Set, 7 pc, 1.5mm to 6mm
LP1	10" Locking Pliers, Straight Jaw
LP2	7" Locking Pliers, Curved Jaw
LP3	6" Locking Pliers, Long Nose

Master Metric Mechanic's Set 43-009

10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-923	Extension, 1/4" Dr, 6"
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4" Dr, 4-3/4"
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
13-906	Ratchet, 3/4" Dr, 19
13-918	Hinge Handle, 3/4" Dr, 22"
13-923	Extension, 3/4" Dr, 8"
13-947	Universal Joint, 3/4" Dr
16-724	Steel Chest, 10-Drawer
28-408	Adjustable Wr-8"
28-410	Adjustable Wr-10"
37-004	Skt-1/4" Dr, 6-Pt, 4mm
37-005	Skt-1/4" Dr, 6-Pt, 5mm
37-006	Skt-1/4" Dr, 6-Pt, 6mm
37-007	Skt-1/4" Dr, 6-Pt, 7mm
37-008	Skt-1/4" Dr, 6-Pt, 8mm
37-009	Skt-1/4" Dr, 6-Pt, 9mm
37-010	Skt-1/4" Dr, 6-Pt, 10mm
37-011	Skt-1/4" Dr, 6-Pt, 11mm
37-012	Skt-1/4" Dr, 6-Pt, 12mm
37-013	Skt-1/4" Dr, 6-Pt, 13mm
37-014	Skt-1/4" Dr, 6-Pt, 14mm
37-083	Skt-1/4" Dr, 6-Pt, 5.5mm
37-204	Skt-1/4" Dr, 6-Pt, Deep, 4mm
37-205	Skt-1/4" Dr, 6-Pt, Deep, 5mm
37-206	Skt-1/4" Dr, 6-Pt, Deep, 6mm
37-207	Skt-1/4" Dr, 6-Pt, Deep, 7mm
37-208	Skt-1/4" Dr, 6-Pt, Deep, 8mm
37-209	Skt-1/4" Dr, 6-Pt, Deep, 9mm
37-210	Skt-1/4" Dr, 6-Pt, Deep, 10mm
37-211	Skt-1/4" Dr, 6-Pt, Deep, 11mm
37-212	Skt-1/4" Dr, 6-Pt, Deep, 12mm
37-213	Skt-1/4" Dr, 6-Pt, Deep, 13mm
37-214	Skt-1/4" Dr, 6-Pt, Deep, 14mm
37-283	Skt-1/4" Dr, 6-Pt, Deep, 5.5mm
37-703	Skt-1/4" Dr, Hex, 2mm
37-704	Skt-1/4" Dr, Hex, 2.5mm
37-705	Skt-1/4" Dr, Hex, 3mm
38-106	Skt-3/8" Dr, 12-Pt, 6mm
38-107	Skt-3/8" Dr, 12-Pt, 7mm
38-108	Skt-3/8" Dr, 12-Pt, 8mm
38-109	Skt-3/8" Dr, 12-Pt, 9mm
38-110	Skt-3/8" Dr, 12-Pt, 10mm
38-111	Skt-3/8" Dr, 12-Pt, 11mm
38-112	Skt-3/8" Dr, 12-Pt, 12mm
38-113	Skt-3/8" Dr, 12-Pt, 13mm
38-114	Skt-3/8" Dr, 12-Pt, 14mm
38-115	Skt-3/8" Dr, 12-Pt, 15mm
38-116	Skt-3/8" Dr, 12-Pt, 16mm
38-117	Skt-3/8" Dr, 12-Pt, 17mm
38-118	Skt-3/8" Dr, 12-Pt, 18mm
38-119	Skt-3/8" Dr, 12-Pt, 19mm
38-120	Skt-3/8" Dr, 12-Pt, 20mm
38-121	Skt-3/8" Dr, 12-Pt, 21mm
38-122	Skt-3/8" Dr, 12-Pt, 22mm
38-306	Skt-3/8" Dr, 12-Pt, Deep, 6mm
38-307	Skt-3/8" Dr, 12-Pt, Deep, 7mm
38-308	Skt-3/8" Dr, 12-Pt, Deep, 8mm
38-309	Skt-3/8" Dr, 12-Pt, Deep, 9mm
38-310	Skt-3/8" Dr, 12-Pt, Deep, 10mm
38-311	Skt-3/8" Dr, 12-Pt, Deep, 11mm
38-312	Skt-3/8" Dr, 12-Pt, Deep, 12mm
38-313	Skt-3/8" Dr, 12-Pt, Deep, 13mm
38-314	Skt-3/8" Dr, 12-Pt, Deep, 14mm
38-315	Skt-3/8" Dr, 12-Pt, Deep, 15mm
38-316	Skt-3/8" Dr, 12-Pt, Deep, 16mm
38-317	Skt-3/8" Dr, 12-Pt, Deep, 17mm
38-318	Skt-3/8" Dr, 12-Pt, Deep, 18mm
38-319	Skt-3/8" Dr, 12-Pt, Deep, 19mm
38-320	Skt-3/8" Dr, 12-Pt, Deep, 20mm
38-321	Skt-3/8" Dr, 12-Pt, Deep, 21mm
38-322	Skt-3/8" Dr, 12-Pt, Deep, 22mm
38-707	Skt-3/8" Dr, Hex, 4mm
38-709	Skt-3/8" Dr, Hex, 5mm
38-711	Skt-3/8" Dr, Hex, 6mm
38-712	Skt-3/8" Dr, Hex, 7mm
39-110	Skt-1/2" Dr, 12-Pt, 10mm
39-111	Skt-1/2" Dr, 12-Pt, 11mm
39-112	Skt-1/2" Dr, 12-Pt, 12mm
39-113	Skt-1/2" Dr, 12-Pt, 13mm
39-114	Skt-1/2" Dr, 12-Pt, 14mm
39-115	Skt-1/2" Dr, 12-Pt, 15mm
39-116	Skt-1/2" Dr, 12-Pt, 16mm
39-117	Skt-1/2" Dr, 12-Pt, 17mm
39-118	Skt-1/2" Dr, 12-Pt, 18mm
39-119	Skt-1/2" Dr, 12-Pt, 19mm
39-120	Skt-1/2" Dr, 12-Pt, 20mm
39-121	Skt-1/2" Dr, 12-Pt, 21mm
39-122	Skt-1/2" Dr, 12-Pt, 22mm
39-123	Skt-1/2" Dr, 12-Pt, 23mm
39-124	Skt-1/2" Dr, 12-Pt, 24mm
39-125	Skt-1/2" Dr, 12-Pt, 25mm
39-126	Skt-1/2" Dr, 12-Pt, 26mm
39-127	Skt-1/2" Dr, 12-Pt, 27mm
39-128	Skt-1/2" Dr, 12-Pt, 28mm
39-129	Skt-1/2" Dr, 12-Pt, 29mm
39-130	Skt-1/2" Dr, 12-Pt, 30mm
39-132	Skt-1/2" Dr, 12-Pt, 32mm
39-310	Skt-1/2" Dr, 12-Pt, Deep, 10mm
39-311	Skt-1/2" Dr, 12-Pt, Deep, 11mm
39-312	Skt-1/2" Dr, 12-Pt, Deep, 12mm
39-313	Skt-1/2" Dr, 12-Pt, Deep, 13mm
39-314	Skt-1/2" Dr, 12-Pt, Deep, 14mm
39-315	Skt-1/2" Dr, 12-Pt, Deep, 15mm
39-316	Skt-1/2" Dr, 12-Pt, Deep, 16mm
39-317	Skt-1/2" Dr, 12-Pt, Deep, 17mm
39-318	Skt-1/2" Dr, 12-Pt, Deep, 18mm
39-319	Skt-1/2" Dr, 12-Pt, Deep, 19mm
39-320	Skt-1/2" Dr, 12-Pt, Deep, 20mm
39-321	Skt-1/2" Dr, 12-Pt, Deep, 21mm
39-322	Skt-1/2" Dr, 12-Pt, Deep, 22mm
39-323	Skt-1/2" Dr, 12-Pt, Deep, 23mm
39-324	Skt-1/2" Dr, 12-Pt, Deep, 24mm
39-325	Skt-1/2" Dr, 12-Pt, Deep, 25mm
39-326	Skt-1/2" Dr, 12-Pt, Deep, 26mm
39-327	Skt-1/2" Dr, 12-Pt, Deep, 27mm
39-328	Skt-1/2" Dr, 12-Pt, Deep, 28mm
39-329	Skt-1/2" Dr, 12-Pt, Deep, 29mm
39-330	Skt-1/2" Dr, 12-Pt, Deep, 30mm
39-332	Skt-1/2" Dr, 12-Pt, Deep, 32mm
39-713	Skt-1/2" Dr, Hex, 8mm
39-715	Skt-1/2" Dr, Hex, 10mm
39-717	Skt-1/2" Dr, Hex, 12mm
39-719	Skt-1/2" Dr, Hex,14mm
39-722	Skt-1/2" Dr, Hex,17mm
40-122	Skt-3/4" Dr, 12-Pt, 22mm
40-123	Skt-3/4" Dr, 12-Pt, 23mm
40-124	Skt-3/4" Dr, 12-Pt, 24mm
40-125	Skt-3/4" Dr, 12-Pt, 25mm
40-126	Skt-3/4" Dr, 12-Pt, 26mm
40-127	Skt-3/4" Dr, 12-Pt, 27mm
40-128	Skt-3/4" Dr, 12-Pt, 28mm
40-129	Skt-3/4" Dr, 12-Pt, 29mm
40-130	Skt-3/4" Dr, 12-Pt, 30mm
40-132	Skt-3/4" Dr, 12-Pt, 32mm
40-135	Skt-3/4" Dr, 12-Pt, 35mm
40-136	Skt-3/4" Dr, 12-Pt, 36mm
40-138	Skt-3/4" Dr, 12-Pt, 38mm
40-141	Skt-3/4" Dr, 12-Pt, 41mm
40-142	Skt-3/4" Dr, 12-Pt, 42mm
40-146	Skt-3/4" Dr, 12-Pt, 46mm
40-150	Skt-3/4" Dr, 12-Pt, 50mm
52-004	Combo Wr-6-Pt Short, 4mm
52-005	Combo Wr-6-Pt Short, 5mm
52-083	Combo Wr-6-Pt Short, 5.5mm
52-206	Combo Wr-12-Pt, 6mm
52-207	Combo Wr-12-Pt, 7mm
52-208	Combo Wr-12-Pt, 8mm
52-209	Combo Wr-12-Pt, 9mm
52-210	Combo Wr-12-Pt, 10mm
52-211	Combo Wr-12-Pt, 11mm
52-212	Combo Wr-12-Pt, 12mm
52-213	Combo Wr-12-Pt, 13mm
52-214	Combo Wr-12-Pt, 14mm
52-215	Combo Wr-12-Pt, 15mm
52-216	Combo Wr-12-Pt, 16mm
52-217	Combo Wr-12-Pt, 17mm
52-218	Combo Wr-12-Pt, 18mm
52-219	Combo Wr-12-Pt, 19mm
52-220	Combo Wr-12-Pt, 20mm
52-221	Combo Wr-12-Pt, 21mm
52-222	Combo Wr-12-Pt, 22mm
52-223	Combo Wr-12-Pt, 23mm
52-224	Combo Wr-12-Pt, 24mm
52-225	Combo Wr-12-Pt, 25mm
52-226	Combo Wr-12-Pt, 26mm
52-227	Combo Wr-12-Pt, 27mm
52-230	Combo Wr-12-Pt, 30mm
52-232	Combo Wr-12-Pt, 32mm
52-236	Combo Wr-12-Pt, 36mm
52-241	Combo Wr-12-Pt, 41mm
52-246	Combo Wr-12-Pt, 46mm
52-250	Combo Wr-12-Pt, 50mm
53-016	O.E. Wr-6 x 7
53-022	O.E. Wr-8 x 9
53-034	O.E. Wr-10 x 11
53-052	O.E. Wr-12 x 13
53-067	O.E. Wr-14 x 15
53-082	O.E. Wr-16 x 17
53-096	O.E. Wr-18 x 19
53-115	O.E. Wr-20 x 22
53-119	O.E. Wr-21 x 23
53-142	O.E. Wr-24 x 26
53-162	O.E. Wr-27 x 30
53-175	O.E. Wr-30 x 32
54-587	Ratch Box Wr-Straight, 7 x 8
54-590	Ratch Box Wr-Straight, 9 x 10
54-593	Ratch Box Wr-Straight, 11 x 12
54-596	Ratch Box Wr-Straight, 13 x 14
54-599	Ratch Box Wr-Straight, 15 x 17
54-602	Ratch Box Wr-Straight, 16 x 18
54-605	Ratch Box Wr-Straight, 19 x 21
66-101	Screwdriver-1/4 x 4
66-104	Screwdriver-5/16 x 6
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-166	Screwdriver-3/8 x 8, #4
66-201	Screwdriver-Stubby
66-207	Screwdriver-1/4 x 4
66-216	Screwdriver-5/16 x 6
66-225	Screwdriver-3/8 x 8
66-231	Screwdriver-3/8 x 12
66-251	Screwdriver-Cabinet,1/8x3-1/2"
66-603	Screwdriver-Offset, 1/4 x 4"
66-607	Screwdriver-Offset, 3/8 x 6"
66-609	Screwdriver-Offset, #1 & #2, 4-1/2"
67-067	Pliers-Lineman's , 8-1/2"
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-367	Pliers-Needle Nose, 6-5/8"
67-667	Pliers-Combo Slip Joint, 6-1/2"
67-669	Pliers-Combo Slip Joint, 8"
67-779	Pliers-T & G, 10"
67-781	Pliers-T & G, 12"
67-901	Pliers-Cutter/Crimper
69-013	Hammer-Soft Face, 1-1/4 Lbs
69-153	Hammer Tip-Medium
69-156	Hammer Tip-Medium Hard
69-448	Hammer-Ball Pein, 1 Lb
69-452	Hammer-Ball Pein, 2 Lbs
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-109	Punch-Pin, 3/16"
70-155	Punch-Solid, 3/32"
70-157	Punch-Solid, 1/8"
70-161	Punch-Solid, 3/16"
70-197	Punch-Long Taper, 1/4"
70-235	Punch-Center, 3/8"
70-255	Punch-Prick, 3/8"
70-305	Chisel-Cold, 3/8"
70-309	Chisel-Cold, 1/2"
70-311	Chisel-Cold, 5/8"
70-313	Chisel-Cold, 3/4"
70-317	Chisel-Cold, 1"
70-503	Pinch Bar-5/8 x 16
70-865	Hacksaw, Flat Frame
70-929	Inspection Mirror, Rectangular
70-933	Magnetic Retrieving Tool
70-979	Scraper, 13"
LP1	10" Locking Pliers, Straight Jaw

ARMSTRONG TOOLS A Danaher Brand

Master Set Contents

Basic Mechanic's Set 16-016

10-006	Skt-1/4" Dr, 6-Pt, 3/16"
10-007	Skt-1/4" Dr, 6-Pt, 7/32"
10-008	Skt-1/4" Dr, 6-Pt, 1/4"
10-009	Skt-1/4" Dr, 6-Pt, 9/32"
10-010	Skt-1/4" Dr, 6-Pt, 5/16"
10-011	Skt-1/4" Dr, 6-Pt, 11/32"
10-012	Skt-1/4" Dr, 6-Pt, 3/8"
10-014	Skt-1/4" Dr, 6-Pt, 7/16"
10-016	Skt-1/4" Dr, 6-Pt, 1/2"
10-018	Skt-1/4" Dr, 6-Pt, 9/16"
10-921	Extension, 1/4" Dr, 2"
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4" Dr, 4-3/4"
11-112	Skt-3/8" Dr, 12-Pt, 5/16"
11-114	Skt-3/8" Dr, 12-Pt, 7/16"
11-116	Skt-3/8" Dr, 12-Pt, 1/2"
11-118	Skt-3/8" Dr, 12-Pt, 9/16"
11-120	Skt-3/8" Dr, 12-Pt, 5/8"
11-122	Skt-3/8" Dr, 12-Pt, 11/16"
11-124	Skt-3/8" Dr, 12-Pt, 3/4"
11-312	Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314	Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316	Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318	Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320	Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322	Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324	Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-501	Skt-3/8" Dr, Spark Plug, 5/8"
11-504	Skt-3/8" Dr, Spark Plug, 13/16"
11-708	Skt-3/8" Dr, Hex, 1/8"
11-710	Skt-3/8" Dr, Hex, 5/32"
11-711	Skt-3/8" Dr, Hex, 3/16"
11-712	Skt-3/8" Dr, Hex, 7/32"
11-713	Skt-3/8" Dr, Hex, 1/4"
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-935	Speeder, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
12-112	Skt-1/2" Dr, 12-Pt, 3/8"
12-114	Skt-1/2" Dr, 12-Pt, 7/16"
12-116	Skt-1/2" Dr, 12-Pt, 1/2"
12-118	Skt-1/2" Dr, 12-Pt, 9/16"
12-120	Skt-1/2" Dr, 12-Pt, 5/8"
12-122	Skt-1/2" Dr, 12-Pt, 11/16"
12-124	Skt-1/2" Dr, 12-Pt, 3/4"
12-126	Skt-1/2" Dr, 12-Pt, 13/16"
12-128	Skt-1/2" Dr, 12-Pt, 7/8"
12-130	Skt-1/2" Dr, 12-Pt, 15/16"
12-132	Skt-1/2" Dr, 12-Pt, 1"
12-312	Skt-1/2" Dr, 12-Pt, Deep, 3/8"
12-314	Skt-1/2" Dr, 12-Pt, Deep, 7/16"
12-316	Skt-1/2" Dr, 12-Pt, Deep, 1/2"
12-318	Skt-1/2" Dr, 12-Pt, Deep, 9/16"
12-320	Skt-1/2" Dr, 12-Pt, Deep, 5/8"
12-322	Skt-1/2" Dr, 12-Pt, Deep, 11/16"
12-324	Skt-1/2" Dr, 12-Pt, Deep, 3/4"
12-326	Skt-1/2" Dr, 12-Pt, Deep, 13/16"
12-328	Skt-1/2" Dr, 12-Pt, Deep, 7/8"
12-330	Skt-1/2" Dr, 12-Pt, Deep, 15/16"
12-332	Skt-1/2" Dr, 12-Pt, Deep, 1"
12-504	Skt-1/2" Dr, Spark Plug,13/16"
12-714	Skt-1/2" Dr, Hex, 5/16"
12-715	Skt-1/2" Dr, Hex, 3/8"
12-716	Skt-1/2" Dr, Hex, 7/16"
12-717	Skt-1/2" Dr, Hex, 1/2"
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-935	Speeder, 1/2" Dr
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
16-722	Steel Chest, 3-Drawer
25-006	Combo Wr-6-Pt, Short, 3/16"
25-007	Combo Wr-6-Pt, Short, 7/32"
25-008	Combo Wr-6-Pt, Short, 1/4"
25-210	Combo Wr-12-Pt, 5/16"
25-212	Combo Wr-12-Pt, 3/8"
25-214	Combo Wr-12-Pt, 7/16"
25-216	Combo Wr-12-Pt, 1/2"
25-218	Combo Wr-12-Pt, 9/16"
25-220	Combo Wr-12-Pt, 5/8"
25-222	Combo Wr-12-Pt, 11/16"
25-224	Combo Wr-12-Pt, 3/4"
25-226	Combo Wr-12-Pt, 13/16"
25-228	Combo Wr-12-Pt, 7/8"
25-230	Combo Wr-12-Pt, 15/16"
25-232	Combo Wr-12-Pt, 1"
28-408	Adjustable Wr-8"
66-101	Screwdriver-1/4 x 4
66-104	Screwdriver-5/16 x 6
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-260	Screwdriver-Cabinet, 3/16 x 3
66-263	Screwdriver-Cabinet, 3/16 x 4
66-264	Screwdriver-Cabinet, 3/16 x 5
67-067	Pliers-Lineman's , 8-1/2"
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-367	Pliers-Needle Nose, 6-5/8"
67-659	Pliers-Combo Slip Joint, 8"
67-779	Pliers-T & G, 10"
69-009	Hammer-Soft Face, 12 Oz.
69-155	Hammer Tip-Tough
69-156	Hammer Tip-Medium Hard
69-448	Hammer-Ball Pein, 1 Lb
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-109	Punch-Pin, 3/16"
70-197	Punch-Long Taper, 1/4"
70-235	Punch-Center, 3/8"
70-305	Chisel-Cold, 3/8"
70-309	Chisel-Cold, 1/2"
70-313	Chisel-Cold, 3/4"
70-979	Scraper, 13"
56067	Hex Key Set, 9 pc, 5/64" to 1/4"
LP1	10" Locking Pliers, Straight Jaw

Intermediate Mechanic's Set 16-017

10-006	Skt-1/4" Dr, 6-Pt, 3/16"
10-007	Skt-1/4" Dr, 6-Pt, 7/32"
10-008	Skt-1/4" Dr, 6-Pt, 1/4"
10-009	Skt-1/4" Dr, 6-Pt, 9/32"
10-010	Skt-1/4" Dr, 6-Pt, 5/16"
10-011	Skt-1/4" Dr, 6-Pt, 11/32"
10-012	Skt-1/4" Dr, 6-Pt, 3/8"
10-014	Skt-1/4" Dr, 6-Pt, 7/16"
10-016	Skt-1/4" Dr, 6-Pt, 1/2"
10-018	Skt-1/4" Dr, 6-Pt, 9/16"
10-206	Skt-1/4" Dr, 6-Pt, Deep, 3/16"
10-207	Skt-1/4" Dr, 6-Pt, Deep, 7/32"
10-208	Skt-1/4" Dr, 6-Pt, Deep, 1/4"
10-209	Skt-1/4" Dr, 6-Pt, Deep, 9/32"
10-210	Skt-1/4" Dr, 6-Pt, Deep, 5/16"
10-211	Skt-1/4" Dr, 6-Pt, Deep, 11/32"
10-212	Skt-1/4" Dr, 6-Pt, Deep, 3/8"
10-214	Skt-1/4" Dr, 6-Pt, Deep, 7/16"
10-216	Skt-1/4" Dr, 6-Pt, Deep, 1/2"
10-218	Skt-1/4" Dr, 6-Pt, Deep, 9/16"
10-705	Skt-1/4" Dr, Hex, 5/64"
10-706	Skt-1/4" Dr, Hex, 3/32"
10-707	Skt-1/4" Dr, Hex, 7/64"
10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-923	Extension, 1/4" Dr, 6"
10-938	T-Handle, 1/4" Dr
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4" Dr, 4-3/4"
11-108	Skt-3/8" Dr, 12-Pt, 1/4"
11-110	Skt-3/8" Dr, 12-Pt, 9/32"
11-112	Skt-3/8" Dr, 12-Pt, 5/16"
11-114	Skt-3/8" Dr, 12-Pt, 7/16"
11-116	Skt-3/8" Dr, 12-Pt, 1/2"
11-118	Skt-3/8" Dr, 12-Pt, 9/16"
11-120	Skt-3/8" Dr, 12-Pt, 5/8"
11-122	Skt-3/8" Dr, 12-Pt, 11/16"
11-124	Skt-3/8" Dr, 12-Pt, 3/4"
11-126	Skt-3/8" Dr, 12-Pt, 13/16"
11-128	Skt-3/8" Dr, 12-Pt, 7/8"
11-312	Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314	Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316	Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318	Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320	Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322	Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324	Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-326	Skt-3/8" Dr, 12-Pt, Deep, 13/16"
11-328	Skt-3/8" Dr, 12-Pt, Deep, 7/8"
11-501	Skt-3/8" Dr, Spark Plug, 5/8"
11-504	Skt-3/8" Dr, Spark Plug, 13/16"
11-512	Skt-3/8" Dr, 12-Pt Flex, 3/8"
11-514	Skt-3/8" Dr, 12-Pt Flex, 7/16"
11-516	Skt-3/8" Dr, 12-Pt Flex, 1/2"
11-518	Skt-3/8" Dr, 12-Pt Flex, 9/16"
11-520	Skt-3/8" Dr, 12-Pt Flex, 5/8"
11-522	Skt-3/8" Dr, 12-Pt Flex, 11/16"
11-524	Skt-3/8" Dr, 12-Pt Flex, 3/4"
11-708	Skt-3/8" Dr, Hex, 1/8"
11-710	Skt-3/8" Dr, Hex, 5/32"
11-711	Skt-3/8" Dr, Hex, 3/16"
11-712	Skt-3/8" Dr, Hex, 7/32"
11-713	Skt-3/8" Dr, Hex, 1/4"
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-935	Speeder, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
12-112	Skt-1/2" Dr, 12-Pt, 3/8"
12-114	Skt-1/2" Dr, 12-Pt, 7/16"
12-116	Skt-1/2" Dr, 12-Pt, 1/2"
12-118	Skt-1/2" Dr, 12-Pt, 9/16"
12-120	Skt-1/2" Dr, 12-Pt, 5/8"
12-122	Skt-1/2" Dr, 12-Pt, 11/16"
12-124	Skt-1/2" Dr, 12-Pt, 3/4"
12-126	Skt-1/2" Dr, 12-Pt, 13/16"
12-128	Skt-1/2" Dr, 12-Pt, 7/8"
12-130	Skt-1/2" Dr, 12-Pt, 15/16"
12-132	Skt-1/2" Dr, 12-Pt, 1"
12-134	Skt-1/2" Dr, 12-Pt, 1-1/16"
12-136	Skt-1/2" Dr, 12-Pt, 1-1/8"
12-138	Skt-1/2" Dr, 12-Pt, 1-3/16"
12-140	Skt-1/2" Dr, 12-Pt, 1-1/4"
12-312	Skt-1/2" Dr, 12-Pt, Deep, 3/8"
12-314	Skt-1/2" Dr, 12-Pt, Deep, 7/16"
12-316	Skt-1/2" Dr, 12-Pt, Deep, 1/2"
12-318	Skt-1/2" Dr, 12-Pt, Deep, 9/16"
12-320	Skt-1/2" Dr, 12-Pt, Deep, 5/8"
12-322	Skt-1/2" Dr, 12-Pt, Deep,11/16"
12-324	Skt-1/2" Dr, 12-Pt, Deep, 3/4"
12-326	Skt-1/2" Dr, 12-Pt, Deep, 13/16"
12-328	Skt-1/2" Dr, 12-Pt, Deep, 7/8"
12-330	Skt-1/2" Dr, 12-Pt, Deep,15/16"
12-332	Skt-1/2" Dr, 12-Pt, Deep, 1"
12-334	Skt-1/2" Dr, 12-Pt, Deep, 1-1/16"
12-336	Skt-1/2" Dr, 12-Pt, Deep, 1-1/8"
12-340	Skt-1/2" Dr, 12-Pt, Deep, 1-1/4"
12-504	Skt-1/2" Dr, Spark Plug, 13/16"
12-516	Skt-1/2" Dr, 12-Pt Flex, 1/2"
12-518	Skt-1/2" Dr, 12-Pt Flex, 9/16"
12-520	Skt-1/2" Dr, 12-Pt Flex, 5/8"
12-522	Skt-1/2" Dr, 12-Pt Flex, 11/16"
12-524	Skt-1/2" Dr, 12-Pt Flex, 3/4"
12-714	Skt-1/2" Dr, Hex, 5/16"
12-715	Skt-1/2" Dr, Hex, 3/8"
12-716	Skt-1/2" Dr, Hex, 7/16"
12-717	Skt-1/2" Dr, Hex, 1/2"
12-718	Skt-1/2" Dr, Hex, 9/16"
12-719	Skt-1/2" Dr, Hex, 5/8"
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-935	Speeder, 1/2" Dr
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
16-724	Steel Chest, 10-Drawer
25-006	Combo Wr-6-Pt, Short, 3/16"
25-007	Combo Wr-6-Pt, Short, 7/32"
25-208	Combo Wr-12-Pt, 1/4"
25-210	Combo Wr-12-Pt, 5/16"
25-212	Combo Wr-12-Pt, 3/8"
25-214	Combo Wr-12-Pt, 7/16"
25-216	Combo Wr-12-Pt, 1/2"
25-218	Combo Wr-12-Pt, 9/16"
25-220	Combo Wr-12-Pt, 5/8"
25-222	Combo Wr-12-Pt, 11/16"
25-224	Combo Wr-12-Pt, 3/4"
25-226	Combo Wr-12-Pt, 13/16"
25-228	Combo Wr-12-Pt, 7/8"
25-230	Combo Wr-12-Pt, 15/16"
25-232	Combo Wr-12-Pt, 1"
25-234	Combo Wr-12-Pt, 1-1/16"
25-236	Combo Wr-12-Pt, 1-1/8"
25-240	Combo Wr-12-Pt, 1-1/4"
26-043	O.E. Wr- 3/8" x 7/16"
26-067	O.E. Wr- 1/2" x 9/16"
26-094	O.E. Wr- 5/8" x 11/16"
26-121	O.E. Wr- 3/4" x 13/16"
26-139	O.E. Wr- 7/8" x 15/16"
26-163	O.E. Wr- 1" x 1-1/8"
26-169	O.E. Wr- 1-1/16" x 1-1/4"
27-903	Mini Angle Wr-13/64"
27-904	Mini Angle Wr-15/64"
27-906	Mini Angle Wr-3/16"
27-907	Mini Angle Wr-7/32"
27-908	Mini Angle Wr-1/4"
27-909	Mini Angle Wr-9/32"
27-910	Mini Angle Wr-5/16"
27-911	Mini Angle Wr-11/32"
27-912	Mini Angle Wr-3/8"
27-914	Mini Angle Wr-7/16"
28-408	Adjustable Wr-8"
28-410	Adjustable Wr-10"
29-360	Vinyl Roll
66-101	Screwdriver-1/4 x 4
66-104	Screwdriver-5/16 x 6
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-166	Screwdriver-3/8 x 8, #4
66-201	Screwdriver-Stubby
66-207	Screwdriver-1/4 x 4
66-216	Screwdriver-5/16 x 6
66-225	Screwdriver-3/8 x 8
66-231	Screwdriver-3/8 x 12
66-251	Screwdriver-Cabinet, 1/8 x 3-1/2"
66-603	Screwdriver-Offset, 1/4 x 4"
66-607	Screwdriver-Offset, 3/8 x 6"
66-609	Screwdriver-Offset, #1 & #2, 4-1/2"
67-067	Pliers-Lineman's , 8-1/2"
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-367	Pliers-Needle Nose, 6-5/8"
67-657	Pliers-Combo Slip Joint, 6-1/2"
67-659	Pliers-Combo Slip Joint, 8"
67-717	Pliers-T & G, 5" Ignition
67-779	Pliers-T & G, 10"
67-781	Pliers-T & G, 12"
67-901	Pliers-Cutter/Crimper
69-009	Hammer-Soft Face, 12 Oz.
69-155	Hammer Tip-Tough
69-156	Hammer Tip-Medium Hard
69-448	Hammer-Ball Pein, 1 Lb
69-452	Hammer-Ball Pein, 2 Lbs
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-109	Punch-Pin, 3/16"
70-157	Punch-Solid, 1/8"
70-161	Punch-Solid, 3/16"
70-197	Punch-Long Taper, 1/4"
70-235	Punch-Center, 3/8"
70-255	Punch-Prick, 3/8"
70-305	Chisel-Cold, 3/8"
70-309	Chisel-Cold, 1/2"
70-311	Chisel-Cold, 5/8"
70-313	Chisel-Cold, 3/4"
70-503	Pinch Bar-5/8 x 16
70-865	Hacksaw, Flat Frame
70-929	Inspection Mirror, Rectangular
70-933	Magnetic Retrieving Tool
70-979	Scraper, 13"
56067	Hex Key Set, 9 pc, 5/64" to 1/4"
LP1	10" Locking Pliers, Straight Jaw

Master Metric Mechanic's Set 43-017

10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-923	Extension, 1/4" Dr, 6"
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4" Dr, 4-3/4"
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
16-724	Steel Chest, 10-Drawer
28-408	Adjustable Wr-8"
28-410	Adjustable Wr-10"
37-004	Skt-1/4" Dr, 6-Pt, 4mm
37-005	Skt-1/4" Dr, 6-Pt, 5mm
37-006	Skt-1/4" Dr, 6-Pt, 6mm
37-007	Skt-1/4" Dr, 6-Pt, 7mm
37-008	Skt-1/4" Dr, 6-Pt, 8mm
37-009	Skt-1/4" Dr, 6-Pt, 9mm
37-010	Skt-1/4" Dr, 6-Pt, 10mm
37-011	Skt-1/4" Dr, 6-Pt, 11mm
37-012	Skt-1/4" Dr, 6-Pt, 12mm
37-013	Skt-1/4" Dr, 6-Pt, 13mm
37-014	Skt-1/4" Dr, 6-Pt, 14mm
37-083	Skt-1/4" Dr, 6-Pt, 5.5mm
37-204	Skt-1/4" Dr, 6-Pt, Deep, 4mm
37-205	Skt-1/4" Dr, 6-Pt, Deep, 5mm
37-206	Skt-1/4" Dr, 6-Pt, Deep, 6mm
37-207	Skt-1/4" Dr, 6-Pt, Deep, 7mm
37-208	Skt-1/4" Dr, 6-Pt, Deep, 8mm
37-209	Skt-1/4" Dr, 6-Pt, Deep, 9mm
37-210	Skt-1/4" Dr, 6-Pt, Deep, 10mm
37-211	Skt-1/4" Dr, 6-Pt, Deep, 11mm
37-212	Skt-1/4" Dr, 6-Pt, Deep, 12mm
37-213	Skt-1/4" Dr, 6-Pt, Deep, 13mm
37-214	Skt-1/4" Dr, 6-Pt, Deep, 14mm
37-283	Skt-1/4" Dr, 6-Pt, Deep, 5.5mm
37-703	Skt-1/4" Dr, Hex, 2mm
37-704	Skt-1/4" Dr, Hex, 2.5mm
37-705	Skt-1/4" Dr, Hex, 3mm
38-106	Skt-3/8" Dr, 12-Pt, 6mm
38-107	Skt-3/8" Dr, 12-Pt, 7mm
38-108	Skt-3/8" Dr, 12-Pt, 8mm
38-109	Skt-3/8" Dr, 12-Pt, 9mm
38-110	Skt-3/8" Dr, 12-Pt, 10mm
38-111	Skt-3/8" Dr, 12-Pt, 11mm
38-112	Skt-3/8" Dr, 12-Pt, 12mm
38-113	Skt-3/8" Dr, 12-Pt, 13mm
38-114	Skt-3/8" Dr, 12-Pt, 14mm
38-115	Skt-3/8" Dr, 12-Pt, 15mm
38-116	Skt-3/8" Dr, 12-Pt, 16mm
38-117	Skt-3/8" Dr, 12-Pt, 17mm
38-118	Skt-3/8" Dr, 12-Pt, 18mm
38-119	Skt-3/8" Dr, 12-Pt, 19mm
38-120	Skt-3/8" Dr, 12-Pt, 20mm
38-121	Skt-3/8" Dr, 12-Pt, 21mm
38-122	Skt-3/8" Dr, 12-Pt, 22mm
38-306	Skt-3/8" Dr, 12-Pt, Deep, 6mm
38-307	Skt-3/8" Dr, 12-Pt, Deep, 7mm
38-308	Skt-3/8" Dr, 12-Pt, Deep, 8mm
38-309	Skt-3/8" Dr, 12-Pt, Deep, 9mm
38-310	Skt-3/8" Dr, 12-Pt, Deep, 10mm
38-311	Skt-3/8" Dr, 12-Pt, Deep, 11mm
38-312	Skt-3/8" Dr, 12-Pt, Deep, 12mm
38-313	Skt-3/8" Dr, 12-Pt, Deep, 13mm
38-314	Skt-3/8" Dr, 12-Pt, Deep, 14mm
38-315	Skt-3/8" Dr, 12-Pt, Deep, 15mm
38-316	Skt-3/8" Dr, 12-Pt, Deep, 16mm
38-317	Skt-3/8" Dr, 12-Pt, Deep, 17mm
38-318	Skt-3/8" Dr, 12-Pt, Deep, 18mm
38-319	Skt-3/8" Dr, 12-Pt, Deep, 19mm
38-320	Skt-3/8" Dr, 12-Pt, Deep, 20mm
38-321	Skt-3/8" Dr, 12-Pt, Deep, 21mm
38-322	Skt-3/8" Dr, 12-Pt, Deep, 22mm
38-707	Skt-3/8" Dr, Hex, 4mm
38-709	Skt-3/8" Dr, Hex, 5mm
38-711	Skt-3/8" Dr, Hex, 6mm
38-712	Skt-3/8" Dr, Hex, 7mm
39-110	Skt-1/2" Dr, 12-Pt, 10mm
39-111	Skt-1/2" Dr, 12-Pt, 11mm
39-112	Skt-1/2" Dr, 12-Pt, 12mm
39-113	Skt-1/2" Dr, 12-Pt, 13mm
39-114	Skt-1/2" Dr, 12-Pt, 14mm
39-115	Skt-1/2" Dr, 12-Pt, 15mm
39-116	Skt-1/2" Dr, 12-Pt, 16mm
39-117	Skt-1/2" Dr, 12-Pt, 17mm
39-118	Skt-1/2" Dr, 12-Pt, 18mm
39-119	Skt-1/2" Dr, 12-Pt, 19mm
39-120	Skt-1/2" Dr, 12-Pt, 20mm
39-121	Skt-1/2" Dr, 12-Pt, 21mm
39-122	Skt-1/2" Dr, 12-Pt, 22mm
39-123	Skt-1/2" Dr, 12-Pt, 23mm
39-124	Skt-1/2" Dr, 12-Pt, 24mm
39-125	Skt-1/2" Dr, 12-Pt, 25mm
39-126	Skt-1/2" Dr, 12-Pt, 26mm
39-127	Skt-1/2" Dr, 12-Pt, 27mm
39-128	Skt-1/2" Dr, 12-Pt, 28mm
39-129	Skt-1/2" Dr, 12-Pt, 29mm
39-130	Skt-1/2" Dr, 12-Pt, 30mm
39-132	Skt-1/2" Dr, 12-Pt, 32mm
39-310	Skt-1/2" Dr, 12-Pt, Deep, 10mm
39-311	Skt-1/2" Dr, 12-Pt, Deep, 11mm
39-312	Skt-1/2" Dr, 12-Pt, Deep, 12mm
39-313	Skt-1/2" Dr, 12-Pt, Deep, 13mm
39-314	Skt-1/2" Dr, 12-Pt, Deep, 14mm
39-315	Skt-1/2" Dr, 12-Pt, Deep, 15mm
39-316	Skt-1/2" Dr, 12-Pt, Deep, 16mm
39-317	Skt-1/2" Dr, 12-Pt, Deep, 17mm
39-318	Skt-1/2" Dr, 12-Pt, Deep, 18mm
39-319	Skt-1/2" Dr, 12-Pt, Deep, 19mm
39-320	Skt-1/2" Dr, 12-Pt, Deep, 20mm
39-321	Skt-1/2" Dr, 12-Pt, Deep, 21mm
39-322	Skt-1/2" Dr, 12-Pt, Deep, 22mm
39-323	Skt-1/2" Dr, 12-Pt, Deep, 23mm
39-324	Skt-1/2" Dr, 12-Pt, Deep, 24mm
39-325	Skt-1/2" Dr, 12-Pt, Deep, 25mm
39-326	Skt-1/2" Dr, 12-Pt, Deep, 26mm
39-327	Skt-1/2" Dr, 12-Pt, Deep, 27mm
39-328	Skt-1/2" Dr, 12-Pt, Deep, 28mm
39-329	Skt-1/2" Dr, 12-Pt, Deep, 29mm
39-330	Skt-1/2" Dr, 12-Pt, Deep, 30mm
39-332	Skt-1/2" Dr, 12-Pt, Deep, 32mm
39-713	Skt-1/2" Dr, Hex, 8mm
39-715	Skt-1/2" Dr, Hex, 10mm
39-717	Skt-1/2" Dr, Hex, 12mm
39-719	Skt-1/2" Dr, Hex,14mm
39-722	Skt-1/2" Dr, Hex,17mm
52-004	Combo Wr-6-Pt Short, 4mm
52-005	Combo Wr-6-Pt Short, 5mm
52-083	Combo Wr-6-Pt Short, 5.5mm
52-206	Combo Wr-12-Pt, 6mm
52-207	Combo Wr-12-Pt, 7mm
52-208	Combo Wr-12-Pt, 8mm
52-209	Combo Wr-12-Pt, 9mm
52-210	Combo Wr-12-Pt, 10mm
52-211	Combo Wr-12-Pt, 11mm
52-212	Combo Wr-12-Pt, 12mm
52-213	Combo Wr-12-Pt, 13mm
52-214	Combo Wr-12-Pt, 14mm
52-215	Combo Wr-12-Pt, 15mm
52-216	Combo Wr-12-Pt, 16mm
52-217	Combo Wr-12-Pt, 17mm
52-218	Combo Wr-12-Pt, 18mm
52-219	Combo Wr-12-Pt, 19mm
52-220	Combo Wr-12-Pt, 20mm
52-221	Combo Wr-12-Pt, 21mm
52-222	Combo Wr-12-Pt, 22mm
52-223	Combo Wr-12-Pt, 23mm
52-224	Combo Wr-12-Pt, 24mm
52-225	Combo Wr-12-Pt, 25mm
52-226	Combo Wr-12-Pt, 26mm
52-227	Combo Wr-12-Pt, 27mm
52-228	Combo Wr-12-Pt, 28mm
52-229	Combo Wr-12-Pt, 29mm
52-230	Combo Wr-12-Pt, 30mm
52-232	Combo Wr-12-Pt, 32mm
53-016	O.E. Wr-6 x 7
53-022	O.E. Wr-8 x 9
53-034	O.E. Wr-10 x 11
53-052	O.E. Wr-12 x 13
53-067	O.E. Wr-14 x 15
53-082	O.E. Wr-16 x 17
53-096	O.E. Wr-18 x 19
53-115	O.E. Wr-20 x 22
53-119	O.E. Wr-21 x 23
53-142	O.E. Wr-24 x 26
53-162	O.E. Wr-27 x 30
53-175	O.E. Wr-30 x 32
54-587	Ratch Box Wr-Straight, 7x8
54-590	Ratch Box Wr-Straight, 9x10
54-593	Ratch Box Wr-Straight, 1 x12
54-596	Ratch Box Wr-Straight, 13x14
54-599	Ratch Box Wr-Straight, 15x17
54-602	Ratch Box Wr-Straight, 16x18
54-605	Ratch Box Wr-Straight, 19x21
66-101	Screwdriver-1/4 x 4
66-104	Screwdriver-5/16 x 6
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-166	Screwdriver-3/8 x 8, #4
66-201	Screwdriver-Stubby
66-207	Screwdriver-1/4 x 4
66-216	Screwdriver-5/16 x 6
66-225	Screwdriver-3/8 x 8
66-231	Screwdriver-3/8 x 12
66-251	Screwdriver-Cabinet, 1/8 x 3-1/2"
66-603	Screwdriver-Offset, 1/4 x 4"
66-607	Screwdriver-Offset, 3/8 x 6"
66-609	Screwdriver-Offset, #1 & #2, 4-1/2"
67-067	Pliers-Lineman's , 8-1/2"
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-367	Pliers-Needle Nose, 6-5/8"
67-667	Pliers-Combo Slip Joint, 6-1/2"
67-669	Pliers-Combo Slip Joint, 8"
67-779	Pliers-T & G, 10"
67-781	Pliers-T & G, 12"
67-901	Pliers-Cutter/Crimper
69-013	Hammer-Soft Face, 1-1/4 Lbs
69-153	Hammer Tip-Medium
69-156	Hammer Tip-Medium Hard
69-448	Hammer-Ball Pein, 1 Lb
69-452	Hammer-Ball Pein, 2 Lbs
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-109	Punch-Pin, 3/16"
70-155	Punch-Solid, 3/32"
70-157	Punch-Solid, 1/8"
70-161	Punch-Solid, 3/16"
70-197	Punch-Long Taper, 1/4"
70-235	Punch-Center, 3/8"
70-255	Punch-Prick, 3/8"
70-305	Chisel-Cold, 3/8"
70-309	Chisel-Cold, 1/2"
70-311	Chisel-Cold, 5/8"
70-313	Chisel-Cold, 3/4"
70-503	Pinch Bar-5/8 x 16
70-865	Hacksaw, Flat Frame
70-929	Inspection Mirror, Rectangular
70-933	Magnetic Retrieving Tool
70-979	Scraper, 13"
LP1	10" Locking Pliers, Straight Jaw

Master Mechanic's Set 16-018

10-004	Skt-1/4" Dr, 6-Pt, 1/8"
10-005	Skt-1/4" Dr, 6-Pt, 5/32"
10-006	Skt-1/4" Dr, 6-Pt, 3/16"
10-007	Skt-1/4" Dr, 6-Pt, 7/32"
10-008	Skt-1/4" Dr, 6-Pt, 1/4"
10-009	Skt-1/4" Dr, 6-Pt, 9/32"
10-010	Skt-1/4" Dr, 6-Pt, 5/16"
10-011	Skt-1/4" Dr, 6-Pt, 11/32"
10-012	Skt-1/4" Dr, 6-Pt, 3/8"
10-014	Skt-1/4" Dr, 6-Pt, 7/16"
10-016	Skt-1/4" Dr, 6-Pt, 1/2"
10-018	Skt-1/4" Dr, 6-Pt, 9/16"
10-204	Skt-1/4" Dr, 6-Pt, Deep, 1/8"
10-205	Skt-1/4" Dr, 6-Pt, Deep, 5/32"
10-206	Skt-1/4" Dr, 6-Pt, Deep, 3/16"
10-207	Skt-1/4" Dr, 6-Pt, Deep, 7/32"
10-208	Skt-1/4" Dr, 6-Pt, Deep, 1/4"
10-209	Skt-1/4" Dr, 6-Pt, Deep, 9/32"
10-210	Skt-1/4" Dr, 6-Pt, Deep, 5/16"
10-211	Skt-1/4" Dr, 6-Pt, Deep, 11/32"
10-212	Skt-1/4" Dr, 6-Pt, Deep, 3/8"
10-214	Skt-1/4" Dr, 6-Pt, Deep, 7/16"
10-216	Skt-1/4" Dr, 6-Pt, Deep, 1/2"
10-218	Skt-1/4" Dr, 6-Pt, Deep, 9/16"
10-408	Skt-1/4" Dr, 4-Pt, 3/16"
10-410	Skt-1/4" Dr, 4-Pt, 1/4"
10-412	Skt-1/4" Dr, 8-Pt, 5/16"
10-705	Skt-1/4" Dr, Hex, 5/64"
10-706	Skt-1/4" Dr, Hex, 3/32"
10-707	Skt-1/4" Dr, Hex, 7/64"
10-708	Skt-1/4" Dr, Hex, 1/8"
10-709	Skt-1/4" Dr, Hex, 9/64"
10-710	Skt-1/4" Dr, Hex, 5/32"
10-711	Skt-1/4" Dr, Hex, 3/16"
10-712	Skt-1/4" Dr, Hex, 7/32"
10-713	Skt-1/4" Dr, Hex, 1/4"
10-714	Skt-1/4" Dr, Hex, 5/16"
10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-922	Extension, 1/4" Dr, 4"
10-923	Extension, 1/4" Dr, 6"
10-929	Extension, 1/4" Dr, 10"
10-935	Speeder, 1/4" Dr
10-938	T-Handle, 1/4" Dr
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4" Dr, 4-3/4"
11-008	Skt-3/8" Dr, 6-Pt, 1/4"
11-010	Skt-3/8" Dr, 6-Pt, 9/32"
11-012	Skt-3/8" Dr, 6-Pt, 3/8"
11-014	Skt-3/8" Dr, 6-Pt, 7/16"
11-016	Skt-3/8" Dr, 6-Pt, 1/2"
11-018	Skt-3/8" Dr, 6-Pt, 9/16"
11-020	Skt-3/8" Dr, 6-Pt, 5/8"
11-022	Skt-3/8" Dr, 6-Pt, 11/16"
11-024	Skt-3/8" Dr, 6-Pt, 3/4"
11-026	Skt-3/8" Dr, 6-Pt, 9/16"
11-028	Skt-3/8" Dr, 6-Pt, 7/8"
11-108	Skt-3/8" Dr, 12-Pt, 1/4"
11-110	Skt-3/8" Dr, 12-Pt, 9/32"
11-112	Skt-3/8" Dr, 12-Pt, 5/16"
11-114	Skt-3/8" Dr, 12-Pt, 7/16"
11-116	Skt-3/8" Dr, 12-Pt, 1/2"
11-118	Skt-3/8" Dr, 12-Pt, 9/16"
11-120	Skt-3/8" Dr, 12-Pt, 5/8"
11-122	Skt-3/8" Dr, 12-Pt, 11/16"
11-124	Skt-3/8" Dr, 12-Pt, 3/4"
11-126	Skt-3/8" Dr, 12-Pt, 13/16"
11-128	Skt-3/8" Dr, 12-Pt, 7/8"
11-308	Skt-3/8" Dr, 12-Pt, Deep, 1/4"
11-310	Skt-3/8" Dr, 12-Pt, Deep, 9/32"
11-312	Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314	Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316	Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318	Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320	Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322	Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324	Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-326	Skt-3/8" Dr, 12-Pt, Deep, 13/16"
11-328	Skt-3/8" Dr, 12-Pt, Deep, 7/8"
11-410	Skt-3/8" Dr, 8-Pt, 5/16"
11-412	Skt-3/8" Dr, 8-Pt, 3/8"
11-414	Skt-3/8" Dr, 8-Pt, 7/16"
11-416	Skt-3/8" Dr, 8-Pt, 1/2"
11-418	Skt-3/8" Dr, 8-Pt, 9/16"
11-420	Skt-3/8" Dr, 8-Pt, 5/8"
11-501	Skt-3/8" Dr, Spark Plug, 5/8"
11-504	Skt-3/8" Dr, Spark Plug, 13/16"
11-512	Skt-3/8" Dr, 12-Pt Flex, 3/8"
11-514	Skt-3/8" Dr, 12-Pt Flex, 7/16"
11-516	Skt-3/8" Dr, 12-Pt Flex, 1/2"
11-518	Skt-3/8" Dr, 12-Pt Flex, 9/16"
11-520	Skt-3/8" Dr, 12-Pt Flex, 5/8"
11-522	Skt-3/8" Dr, 12-Pt Flex, 11/16"
11-524	Skt-3/8" Dr, 12-Pt Flex, 3/4"
11-708	Skt-3/8" Dr, Hex, 1/8"
11-710	Skt-3/8" Dr, Hex, 5/32"
11-711	Skt-3/8" Dr, Hex, 3/16"
11-712	Skt-3/8" Dr, Hex, 7/32"
11-713	Skt-3/8" Dr, Hex, 1/4"
11-714	Skt-3/8" Dr, Hex, 5/16"
11-715	Skt-3/8" Dr, Hex, 3/8"
11-802	Skt-3/8" Dr, Screwdriver, 1/4"
11-803	Skt-3/8" Dr, Screwdriver, 5/16"
11-805	Skt-3/8" Dr, Screwdriver, 3/8"
11-821	Skt-3/8" Dr, Screwdriver, #1
11-822	Skt-3/8" Dr, Screwdriver, #2
11-825	Skt-3/8" Dr, Screwdriver, #3
11-828	Skt-3/8" Dr, Screwdriver, #4
11-918	Hinge Handle, 3/8" Dr
11-921	Extension, 3/8" Dr, 1-1/2"
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-925	Extension, 3/8" Dr, 8"
11-927	Extension, 3/8" Dr, 12"
11-935	Speeder, 3/8" Dr
11-938	T-Handle, 3/8" Dr
11-944	Ratchet Adapter, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
11-974	Ratchet, 3/8" Dr, Flex Head, 9-1/2"
12-012	Skt-1/2" Dr, 6-Pt, 3/8"
12-014	Skt-1/2" Dr, 6-Pt, 7/16"
12-016	Skt-1/2" Dr, 6-Pt, 1/2"
12-018	Skt-1/2" Dr, 6-Pt, 9/16"
12-020	Skt-1/2" Dr, 6-Pt, 5/8"
12-022	Skt-1/2" Dr, 6-Pt, 11/16"
12-024	Skt-1/2" Dr, 6-Pt, 3/4"
12-026	Skt-1/2" Dr, 6-Pt, 13/16"
12-028	Skt-1/2" Dr, 6-Pt, 7/8"
12-030	Skt-1/2" Dr, 6-Pt, 15/16"
12-032	Skt-1/2" Dr, 6-Pt, 1"
12-034	Skt-1/2" Dr, 6-Pt, 1-1/16"
12-036	Skt-1/2" Dr, 6-Pt, 1-1/8"
12-038	Skt-1/2" Dr, 6-Pt, 1-3/16"
12-040	Skt-1/2" Dr, 6-Pt, 1-1/4"
12-112	Skt-1/2" Dr, 12-Pt, 3/8"
12-114	Skt-1/2" Dr, 12-Pt, 7/16"
12-116	Skt-1/2" Dr, 12-Pt, 1/2"
12-118	Skt-1/2" Dr, 12-Pt, 9/16"
12-120	Skt-1/2" Dr, 12-Pt, 5/8"
12-122	Skt-1/2" Dr, 12-Pt, 11/16"
12-124	Skt-1/2" Dr, 12-Pt, 3/4"
12-126	Skt-1/2" Dr, 12-Pt, 13/16"
12-128	Skt-1/2" Dr, 12-Pt, 7/8"
12-130	Skt-1/2" Dr, 12-Pt, 15/16"
12-132	Skt-1/2" Dr, 12-Pt, 1"
12-134	Skt-1/2" Dr, 12-Pt, 1-1/16"
12-136	Skt-1/2" Dr, 12-Pt, 1-1/8"
12-138	Skt-1/2" Dr, 12-Pt, 1-3/16"
12-140	Skt-1/2" Dr, 12-Pt, 1-1/4"
12-312	Skt-1/2" Dr, 12-Pt, Deep, 3/8"
12-314	Skt-1/2" Dr, 12-Pt, Deep, 7/16"
12-316	Skt-1/2" Dr, 12-Pt, Deep, 1/2"
12-318	Skt-1/2" Dr, 12-Pt, Deep, 9/16"
12-320	Skt-1/2" Dr, 12-Pt, Deep, 5/8"
12-322	Skt-1/2" Dr, 12-Pt, Deep, 11/16"
12-324	Skt-1/2" Dr, 12-Pt, Deep, 3/4"
12-326	Skt-1/2" Dr, 12-Pt, Deep, 13/16"
12-328	Skt-1/2" Dr, 12-Pt, Deep, 7/8"
12-330	Skt-1/2" Dr, 12-Pt, Deep, 15/16"
12-332	Skt-1/2" Dr, 12-Pt, Deep, 1"
12-334	Skt-1/2" Dr, 12-Pt, Deep, 1-1/16"
12-336	Skt-1/2" Dr, 12-Pt, Deep, 1-1/8"
12-340	Skt-1/2" Dr, 12-Pt, Deep, 1-1/4"
12-412	Skt-1/2" Dr, 8-Pt, 3/8"
12-414	Skt-1/2" Dr, 8-Pt, 7/16"
12-416	Skt-1/2" Dr, 8-Pt, 1/2"
12-418	Skt-1/2" Dr, 8-Pt, 9/16"
12-420	Skt-1/2" Dr, 8-Pt, 5/8"
12-422	Skt-1/2" Dr, 8-Pt, 11/16"
12-424	Skt-1/2" Dr, 8-Pt, 3/4"
12-426	Skt-1/2" Dr, 8-Pt, 13/16"
12-428	Skt-1/2" Dr, 8-Pt, 7/8"
12-432	Skt-1/2" Dr, 8-Pt, 1"
12-504	Skt-1/2" Dr, Spark Plug, 13/16"
12-516	Skt-1/2" Dr, 12-Pt Flex, 1/2"
12-518	Skt-1/2" Dr, 12-Pt Flex, 9/16"
12-520	Skt-1/2" Dr, 12-Pt Flex, 5/8"
12-522	Skt-1/2" Dr, 12-Pt Flex, 11/16"
12-524	Skt-1/2" Dr, 12-Pt Flex, 3/4"
12-713	Skt-1/2" Dr, Hex, 1/4"
12-714	Skt-1/2" Dr, Hex, 5/16"
12-715	Skt-1/2" Dr, Hex, 3/8"
12-716	Skt-1/2" Dr, Hex, 7/16"
12-717	Skt-1/2" Dr, Hex, 1/2"
12-718	Skt-1/2" Dr, Hex, 9/16"
12-719	Skt-1/2" Dr, Hex, 5/8"
12-802	Skt-1/2" Dr, Screwdriver, 1/4"
12-803	Skt-1/2" Dr, Screwdriver, 5/16"
12-805	Skt-1/2" Dr, Screwdriver, 3/8"

ARMSTRONG TOOLS A Danaher Brand

Master Set Contents

Master Mechanic's Set 16-018 Cont.

12-821	Skt-1/2" Dr, Screwdriver, #1
12-822	Skt-1/2" Dr, Screwdriver, #2
12-825	Skt-1/2" Dr, Screwdriver, #3
12-828	Skt-1/2" Dr, Screwdriver, #4
12-892	Skt-1/2" Dr, Drag Link, 7/64 x 15/16"
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-935	Speeder, 1/2" Dr
12-938	T-Handle, 1/2" Dr
12-944	Ratchet Adapter, 1/2" Dr
12-945	Ratchet Spinner, 1/2" Dr
12-947	Universal Joint, 1/2" Dr
12-948	Stud Remover, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
12-973	Ratchet, 1/2" Dr, 15"
16-760	Steel Chest, 10-Drawer
16-762	Steel Cabinet, 8-Drawer
25-004	Combo Wr-6-Pt, Short, 1/8"
25-005	Combo Wr-6-Pt, Short, 5/32"
25-006	Combo Wr-6-Pt, Short, 3/16"
25-007	Combo Wr-6-Pt, Short, 7/32"
25-008	Combo Wr-6-Pt, Short, 1/4"
25-009	Combo Wr-6-Pt, Short, 9/32"
25-010	Combo Wr-6-Pt, Short, 5/16"
25-111	Combo Wr-12-Pt, Short, 11/32"
25-112	Combo Wr-12-Pt, Short, 3/8"
25-114	Combo Wr-12-Pt, Short, 7/16"
25-116	Combo Wr-12-Pt, Short, 1/2"
25-118	Combo Wr-12-Pt, Short, 9/16"
25-120	Combo Wr-12-Pt, Short, 5/8"
25-122	Combo Wr-12-Pt, Short, 11/16"
25-124	Combo Wr-12-Pt, Short, 3/4"
25-126	Combo Wr-12-Pt, Short, 13/16"
25-128	Combo Wr-12-Pt, Short, 7/8"
25-208	Combo Wr-12-Pt, 1/4"
25-210	Combo Wr-12-Pt, 5/16"
25-212	Combo Wr-12-Pt, 3/8"
25-214	Combo Wr-12-Pt, 7/16"
25-216	Combo Wr-12-Pt, 1/2"
25-218	Combo Wr-12-Pt, 9/16"
25-220	Combo Wr-12-Pt, 5/8"
25-222	Combo Wr-12-Pt, 11/16"
25-224	Combo Wr-12-Pt, 3/4"
25-226	Combo Wr-12-Pt, 13/16"
25-228	Combo Wr-12-Pt, 7/8"
25-230	Combo Wr-12-Pt, 15/16"
25-232	Combo Wr-12-Pt, 1"
25-234	Combo Wr-12-Pt, 1-1/16"
25-236	Combo Wr-12-Pt, 1-1/8"
25-240	Combo Wr-12-Pt, 1-1/4"
26-043	O.E. Wr- 3/8" x 7/16"
26-067	O.E. Wr- 1/2" x 9/16"
26-094	O.E. Wr- 5/8" x 11/16"
26-121	O.E. Wr- 3/4" x 13/16"
26-139	O.E. Wr- 7/8" x 15/16"
26-163	O.E. Wr- 1" x 1-1/8"
26-169	O.E. Wr- 1-1/16" x 1-1/4"
26-643	15° Box Wr-12-Pt, 3/8" x 7/16"
26-667	15° Box Wr-12-Pt, 1/2" x 9/16"
26-694	15° Box Wr-12-Pt, 5/8" x 11/16"
26-724	15° Box Wr-12-Pt, 3/4" x 7/8"
26-739	15° Box Wr-12-Pt, 7/8" x 15/16"
26-763	15° Box Wr-12-Pt, 1" x 1-1/8"
26-769	15° Box Wr-12-Pt, 1-1/16" x 1-1/4"
27-588	Ratch Box Wr-Straight, 1/4" x 5/16"
27-591	Ratch Box Wr-Straight, 3/8" x 7/16"
27-594	Ratch Box Wr-Straight, 1/2" x 9/16"
27-596	Ratch Box Wr-Straight, 5/8" x 11/16"
27-602	Ratch Box Wr-Straight, 3/4" x 7/8"
27-903	Mini Angle Wr-13/64"
27-904	Mini Angle Wr-15/64"
27-906	Mini Angle Wr-3/16"
27-907	Mini Angle Wr-7/32"
27-908	Mini Angle Wr-1/4"
27-909	Mini Angle Wr-9/32"
27-910	Mini Angle Wr-5/16"
27-911	Mini Angle Wr-11/32"
27-912	Mini Angle Wr-3/8"
27-914	Mini Angle Wr-7/16"
28-130	Flare Nut Wr-3/8" x 7/16"
28-135	Flare Nut Wr-1/2" x 9/16"
28-140	Flare Nut Wr-5/8" x 11/16"
28-145	Flare Nut Wr-3/4" x 1"
28-150	Flare Nut Wr-7/8" x 1-1/8"
28-406	Adjustable Wr-6"
28-408	Adjustable Wr-8"
28-410	Adjustable Wr-10"
28-412	Adjustable Wr-12"
28-418	Adjustable Wr-18"
29-343	Vinyl Roll
29-360	Vinyl Roll
37-004	Skt-1/4" Dr, 6-Pt, 4mm
37-005	Skt-1/4" Dr, 6-Pt, 5mm
37-006	Skt-1/4" Dr, 6-Pt, 6mm
37-007	Skt-1/4" Dr, 6-Pt, 7mm
37-008	Skt-1/4" Dr, 6-Pt, 8mm
37-009	Skt-1/4" Dr, 6-Pt, 9mm
37-010	Skt-1/4" Dr, 6-Pt, 10mm
37-011	Skt-1/4" Dr, 6-Pt, 11mm
37-012	Skt-1/4" Dr, 6-Pt, 12mm
37-013	Skt-1/4" Dr, 6-Pt, 13mm
37-014	Skt-1/4" Dr, 6-Pt, 14mm
37-081	Skt-1/4" Dr, 6-Pt, 4.5mm
37-083	Skt-1/4" Dr, 6-Pt, 5.5mm
37-204	Skt-1/4" Dr, 6-Pt, Deep, 4mm
37-205	Skt-1/4" Dr, 6-Pt, Deep, 5mm
37-206	Skt-1/4" Dr, 6-Pt, Deep, 6mm
37-207	Skt-1/4" Dr, 6-Pt, Deep, 7mm
37-208	Skt-1/4" Dr, 6-Pt, Deep, 8mm
37-209	Skt-1/4" Dr, 6-Pt, Deep, 9mm
37-210	Skt-1/4" Dr, 6-Pt, Deep, 10mm
37-211	Skt-1/4" Dr, 6-Pt, Deep, 11mm
37-212	Skt-1/4" Dr, 6-Pt, Deep, 12mm
37-213	Skt-1/4" Dr, 6-Pt, Deep, 13mm
37-214	Skt-1/4" Dr, 6-Pt, Deep, 14mm
37-281	Skt-1/4" Dr, 6-Pt, Deep, 4.5mm
37-283	Skt-1/4" Dr, 6-Pt, Deep, 5.5mm
37-703	Skt-1/4" Dr, Hex, 2mm
37-704	Skt-1/4" Dr, Hex, 2.5mm
37-705	Skt-1/4" Dr, Hex, 3mm
37-707	Skt-1/4" Dr, Hex, 4mm
37-709	Skt-1/4" Dr, Hex, 5mm
37-711	Skt-1/4" Dr, Hex, 6mm
37-713	Skt-1/4" Dr, Hex, 8mm
38-006	Skt-3/8" Dr, 6-Pt, 6mm
38-007	Skt-3/8" Dr, 6-Pt, 7mm
38-008	Skt-3/8" Dr, 6-Pt, 8mm
38-109	Skt-3/8" Dr, 12-Pt, 9mm
38-110	Skt-3/8" Dr, 12-Pt, 10mm
38-111	Skt-3/8" Dr, 12-Pt, 11mm
38-112	Skt-3/8" Dr, 12-Pt, 12mm
38-113	Skt-3/8" Dr, 12-Pt, 13mm
38-114	Skt-3/8" Dr, 12-Pt, 14mm
38-115	Skt-3/8" Dr, 12-Pt, 15mm
38-116	Skt-3/8" Dr, 12-Pt, 16mm
38-117	Skt-3/8" Dr, 12-Pt, 17mm
38-118	Skt-3/8" Dr, 12-Pt, 18mm
38-119	Skt-3/8" Dr, 12-Pt, 19mm
38-120	Skt-3/8" Dr, 12-Pt, 20mm
38-121	Skt-3/8" Dr, 12-Pt, 21mm
38-122	Skt-3/8" Dr, 12-Pt, 22mm
38-310	Skt-3/8" Dr, 12-Pt, Deep, 10mm
38-311	Skt-3/8" Dr, 12-Pt, Deep, 11mm
38-312	Skt-3/8" Dr, 12-Pt, Deep, 12mm
38-313	Skt-3/8" Dr, 12-Pt, Deep, 13mm
38-314	Skt-3/8" Dr, 12-Pt, Deep, 14mm
38-315	Skt-3/8" Dr, 12-Pt, Deep, 15mm
38-316	Skt-3/8" Dr, 12-Pt, Deep, 16mm
38-317	Skt-3/8" Dr, 12-Pt, Deep, 17mm
38-318	Skt-3/8" Dr, 12-Pt, Deep, 18mm
38-319	Skt-3/8" Dr, 12-Pt, Deep, 19mm
38-320	Skt-3/8" Dr, 12-Pt, Deep, 20mm
38-321	Skt-3/8" Dr, 12-Pt, Deep, 21mm
38-322	Skt-3/8" Dr, 12-Pt, Deep, 22mm
38-705	Skt-3/8" Dr, Hex, 3mm
38-707	Skt-3/8" Dr, Hex, 4mm
38-709	Skt-3/8" Dr, Hex, 5mm
38-711	Skt-3/8" Dr, Hex, 6mm
38-713	Skt-3/8" Dr, Hex, 8mm
38-715	Skt-3/8" Dr, Hex, 10mm
39-110	Skt-1/2" Dr, 12-Pt, 10mm
39-111	Skt-1/2" Dr, 12-Pt, 11mm
39-112	Skt-1/2" Dr, 12-Pt, 12mm
39-113	Skt-1/2" Dr, 12-Pt, 13mm
39-114	Skt-1/2" Dr, 12-Pt, 14mm
39-115	Skt-1/2" Dr, 12-Pt, 15mm
39-116	Skt-1/2" Dr, 12-Pt, 16mm
39-117	Skt-1/2" Dr, 12-Pt, 17mm
39-118	Skt-1/2" Dr, 12-Pt, 18mm
39-119	Skt-1/2" Dr, 12-Pt, 19mm
39-120	Skt-1/2" Dr, 12-Pt, 20mm
39-121	Skt-1/2" Dr, 12-Pt, 21mm
39-122	Skt-1/2" Dr, 12-Pt, 22mm
39-123	Skt-1/2" Dr, 12-Pt, 23mm
39-124	Skt-1/2" Dr, 12-Pt, 24mm
39-125	Skt-1/2" Dr, 12-Pt, 25mm
39-126	Skt-1/2" Dr, 12-Pt, 26mm
39-127	Skt-1/2" Dr, 12-Pt, 27mm
39-130	Skt-1/2" Dr, 12-Pt, 30mm
39-132	Skt-1/2" Dr, 12-Pt, 32mm
39-310	Skt-1/2" Dr, 12-Pt, Deep, 10mm
39-311	Skt-1/2" Dr, 12-Pt, Deep, 11mm
39-312	Skt-1/2" Dr, 12-Pt, Deep, 12mm
39-313	Skt-1/2" Dr, 12-Pt, Deep, 13mm
39-314	Skt-1/2" Dr, 12-Pt, Deep, 14mm
39-315	Skt-1/2" Dr, 12-Pt, Deep, 15mm
39-316	Skt-1/2" Dr, 12-Pt, Deep, 16mm
39-317	Skt-1/2" Dr, 12-Pt, Deep, 17mm
39-318	Skt-1/2" Dr, 12-Pt, Deep, 18mm
39-319	Skt-1/2" Dr, 12-Pt, Deep, 19mm
39-320	Skt-1/2" Dr, 12-Pt, Deep, 20mm
39-321	Skt-1/2" Dr, 12-Pt, Deep, 21mm
39-322	Skt-1/2" Dr, 12-Pt, Deep, 22mm
39-323	Skt-1/2" Dr, 12-Pt, Deep, 23mm
39-324	Skt-1/2" Dr, 12-Pt, Deep, 24mm
39-325	Skt-1/2" Dr, 12-Pt, Deep, 25mm
39-326	Skt-1/2" Dr, 12-Pt, Deep, 26mm
39-327	Skt-1/2" Dr, 12-Pt, Deep, 27mm
39-330	Skt-1/2" Dr, 12-Pt, Deep, 30mm
39-332	Skt-1/2" Dr, 12-Pt, Deep, 32mm
39-711	Skt-1/2" Dr, Hex, 6mm
39-713	Skt-1/2" Dr, Hex, 8mm
39-715	Skt-1/2" Dr, Hex, 10mm
39-717	Skt-1/2" Dr, Hex, 12mm
39-719	Skt-1/2" Dr, Hex,14mm
39-722	Skt-1/2" Dr, Hex,17mm
52-004	Combo Wr-6-Pt Short, 4mm
52-005	Combo Wr-6-Pt Short, 5mm
52-006	Combo Wr-6-Pt Short, 6mm
52-007	Combo Wr-6-Pt Short, 7mm
52-008	Combo Wr-6-Pt Short, 8mm
52-083	Combo Wr-6-Pt Short, 5.5mm
52-109	Combo Wr-12-Pt Short, 9mm
52-210	Combo Wr-12-Pt, 10mm
52-211	Combo Wr-12-Pt, 11mm
52-212	Combo Wr-12-Pt, 12mm
52-213	Combo Wr-12-Pt, 13mm
52-214	Combo Wr-12-Pt, 14mm
52-215	Combo Wr-12-Pt, 15mm
52-216	Combo Wr-12-Pt, 16mm
52-217	Combo Wr-12-Pt, 17mm
52-218	Combo Wr-12-Pt, 18mm
52-219	Combo Wr-12-Pt, 19mm
52-220	Combo Wr-12-Pt, 20mm
52-221	Combo Wr-12-Pt, 21mm
52-222	Combo Wr-12-Pt, 22mm
52-223	Combo Wr-12-Pt, 23mm
52-224	Combo Wr-12-Pt, 24mm
52-225	Combo Wr-12-Pt, 25mm
52-226	Combo Wr-12-Pt, 26mm
52-227	Combo Wr-12-Pt, 27mm
52-230	Combo Wr-12-Pt, 30mm
52-232	Combo Wr-12-Pt, 32mm
64-086	Torque Wrench-1/2" Dr
66-101	Screwdriver-1/4 x 4
66-104	Screwdriver-5/16 x 6
66-107	Screwdriver-3/8 x 8
66-151	Screwdriver-#2 Stubby
66-154	Screwdriver-1/8 x 3, #0
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-166	Screwdriver-3/8 x 8, #4
66-201	Screwdriver-Stubby
66-204	Screwdriver-3/16 x 4
66-207	Screwdriver-1/4 x 4
66-210	Screwdriver-1/4 x 6
66-216	Screwdriver-5/16 x 6
66-225	Screwdriver-3/8 x 8
66-228	Screwdriver-3/8 x 10
66-251	Screwdriver-Cabinet, 1/8 x 3-1/2"
66-260	Screwdriver-Cabinet, 3/16 x 3
66-266	Screwdriver-Cabinet, 3/16 x 6
66-603	Screwdriver-Offset, 1/4 x 4"
66-607	Screwdriver-Offset, 3/8 x 6"
66-609	Screwdriver-Offset, #1 & #2, 4-1/2"
66-613	Screwdriver-Offset, #3 & #4, 6-1/2"
66-808	Nut Driver-1/4"
66-809	Nut Driver-9/32"
66-810	Nut Driver-5/16"
66-811	Nut Driver-11/32"
66-812	Nut Driver-3/8"
66-814	Nut Driver-7/16"
66-816	Nut Driver-1/2"
66-924	Screw Starter-Slotted-5"
66-933	Screw Starter-Phillips-5"
66-943	Nut Starter-5"
67-067	Pliers-Lineman's , 8-1/2"
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-161	Pliers-Diagonal Cutting, 6"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-367	Pliers-Needle Nose, 6-5/8"
67-657	Pliers-Combo Slip Joint, 6-1/2"
67-659	Pliers-Combo Slip Joint, 8"
67-717	Pliers-T & G, 5" Ignition
67-779	Pliers-T & G, 10"
67-781	Pliers-T & G, 12"
67-901	Pliers-Cutter/Crimper
68-065	Plier Set-Ret Ring
68-070	Plier-Int/Ext Conv, Ret Ring
68-255	Aviation Snip, Straight
68-273	Tin Snips-10" Long Straight
68-293	Tin Snips-10" Duckbill
68-433	Measuring Tape-1/2 x 12'
68-470	Measuring Tape-3/8 x 50'
69-009	Hammer-Soft Face, 12 Oz.
69-019	Hammer-Soft Face, 2 Lbs.
69-155	Hammer Tip-Tough
69-156	Hammer Tip-Medium Hard
69-158	Hammer Tip-Hard
69-165	Hammer Tip-Tough
69-166	Hammer Tip-Medium Hard
69-168	Hammer Tip-Hard
69-444	Hammer-Ball Pein, 8 oz
69-448	Hammer-Ball Pein, 1 Lb
69-452	Hammer-Ball Pein, 2 Lbs
69-490	Mallet-Rubber, 2 Lbs
69-605	Hammer-Hand Drilling, 3 Lbs
70-101	Punch-Pin, 1/16"
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-107	Punch-Pin, 5/32"
70-109	Punch-Pin, 3/16"
70-131	Punch-Pin, 1/4"
70-157	Punch-Solid, 1/8"
70-161	Punch-Solid, 3/16"
70-165	Punch-Solid, 1/4"
70-193	Punch-Long Taper, 3/16"
70-197	Punch-Long Taper, 1/4"
70-235	Punch-Center, 3/8"
70-239	Punch-Center, 1/2"
70-255	Punch-Prick, 3/8"
70-301	Chisel-Cold, 1/4"
70-305	Chisel-Cold, 3/8"
70-309	Chisel-Cold, 1/2"
70-311	Chisel-Cold, 5/8"
70-313	Chisel-Cold, 3/4"
70-315	Chisel-Cold, 7/8"
70-317	Chisel-Cold, 1"
70-347	Chisel-Cold, 5/8 x 12"
70-353	Chisel-Cold, 3/4 x 12"
70-503	Pinch Bar-5/8 x 16
70-505	Pinch Bar-3/8 x 24
70-521	Pry Bar-Rolling Head, 5/8 x 18"
70-793	Feeler Gauge Set, 25 Blades
70-815	Master Go/No-Go Gauge Set, 22 Blades
70-865	Hacksaw, Flat Frame
70-877	Hacksaw Blades
70-925	Inspection Mirror, Round
70-929	Inspection Mirror, Rectangular
70-933	Magnetic Retrieving Tool
70-950	Screw Extractor-for #12 - 5/16 Screws
70-952	Screw Extractor-for 5/16 to 3/8 Screws
70-954	Screw Extractor-for 7/16 to 1/2 Screws
70-956	Screw Extractor-for 1/2 to 9/16 Screws
70-958	Screw Extractor-for 9/16 to 5/8 Screws
70-960	Screw Extractor-for 5/8 to 3/4 Screws
70-962	Screw Extractor-for 3/4 to 1 Screws
70-977	Scraper, 9-1/2"
70-979	Scraper, 13"
71-404	2-/3-Arm Conv Puller
71-432	2-Arm Puller
56032	Hex Key Set, 15 pc, .028" to 3/8"
56036	Hex Key Set, 15 pc, 0.7mm to 17mm
56067	Hex Key Set, 9 pc, 5/64" to 1/4"
56070	Hex Key Set, 7 pc, 1.5mm to 6mm
LP1	10" Locking Pliers, Stralght Jaw
LP2	7" Locking Pliers, Curved Jaw
LP3	6" Locking Pliers, Long Nose

Master Aircraft Maintenance Set 16-023

10-006	Skt-1/4" Dr, 6-Pt, 3/16"
10-007	Skt-1/4" Dr, 6-Pt, 7/32"
10-008	Skt-1/4" Dr, 6-Pt, 1/4"
10-009	Skt-1/4" Dr, 6-Pt, 9/32"
10-010	Skt-1/4" Dr, 6-Pt, 5/16"
10-011	Skt-1/4" Dr, 6-Pt, 11/32"
10-012	Skt-1/4" Dr, 6-Pt, 3/8"
10-014	Skt-1/4" Dr, 6-Pt, 7/16"
10-016	Skt-1/4" Dr, 6-Pt, 1/2"
10-018	Skt-1/4" Dr, 6-Pt, 9/16"
10-206	Skt-1/4" Dr, 6-Pt, Deep, 3/16"
10-207	Skt-1/4" Dr, 6-Pt, Deep, 7/32"
10-208	Skt-1/4" Dr, 6-Pt, Deep, 1/4"
10-209	Skt-1/4" Dr, 6-Pt, Deep, 9/32"
10-210	Skt-1/4" Dr, 6-Pt, Deep, 5/16"
10-211	Skt-1/4" Dr, 6-Pt, Deep, 11/32"
10-212	Skt-1/4" Dr, 6-Pt, Deep, 3/8"
10-214	Skt-1/4" Dr, 6-Pt, Deep, 7/16"
10-216	Skt-1/4" Dr, 6-Pt, Deep, 1/2"
10-218	Skt-1/4" Dr, 6-Pt, Deep, 9/16"
10-408	Skt-1/4" Dr, 4-Pt, 3/16"
10-410	Skt-1/4" Dr, 4-Pt, 1/4"
10-412	Skt-1/4" Dr, 8-Pt, 5/16"
10-801	Skt-1/4" Dr, Screwdriver, 3/16"
10-802	Skt-1/4" Dr, Screwdriver, 1/4"
10-821	Skt-1/4" Dr, Screwdriver, #1
10-822	Skt-1/4" Dr, Screwdriver, #2
10-918	Hinge Handle, 1/4" Dr
10-921	Extension, 1/4" Dr, 2"
10-922	Extension, 1/4" Dr, 4"
10-923	Extension, 1/4" Dr, 6"
10-929	Extension, 1/4" Dr, 10"
10-935	Speeder, 1/4" Dr
10-938	T-Handle, 1/4" Dr
10-943	Plastic Handle Driver, 1/4" Dr
10-947	Universal Joint, 1/4" Dr
10-972	Ratchet, 1/4" Dr, 4-3/4"
11-112	Skt-3/8" Dr, 12-Pt, 5/16"
11-114	Skt-3/8" Dr, 12-Pt, 7/16"
11-116	Skt-3/8" Dr, 12-Pt, 1/2"
11-118	Skt-3/8" Dr, 12-Pt, 9/16"
11-120	Skt-3/8" Dr, 12-Pt, 5/8"
11-122	Skt-3/8" Dr, 12-Pt, 11/16"
11-124	Skt-3/8" Dr, 12-Pt, 3/4"
11-312	Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314	Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316	Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318	Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320	Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322	Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324	Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-326	Skt-3/8" Dr, 12-Pt, Deep, 13/16"
11-328	Skt-3/8" Dr, 12-Pt, Deep, 7/8"
11-512	Skt-3/8" Dr, 12-Pt Flex, 3/8"
11-514	Skt-3/8" Dr, 12-Pt Flex, 7/16"
11-516	Skt-3/8" Dr, 12-Pt Flex, 1/2"
11-518	Skt-3/8" Dr, 12-Pt Flex, 9/16"
11-520	Skt-3/8" Dr, 12-Pt Flex, 5/8"
11-522	Skt-3/8" Dr, 12-Pt Flex, 11/16"
11-524	Skt-3/8" Dr, 12-Pt Flex, 3/4"
11-708	Skt-3/8" Dr, Hex, 1/8"
11-710	Skt-3/8" Dr, Hex, 5/32"
11-711	Skt-3/8" Dr, Hex, 3/16"
11-712	Skt-3/8" Dr, Hex, 7/32"
11-713	Skt-3/8" Dr, Hex, 1/4"
11-714	Skt-3/8" Dr, Hex, 5/16"
11-715	Skt-3/8" Dr, Hex, 3/8"
11-850	Crowfoot Wr-3/8" Dr, 3/8"
11-851	Crowfoot Wr-3/8" Dr, 7/16"
11-852	Crowfoot Wr-3/8" Dr, 1/2"
11-853	Crowfoot Wr-3/8" Dr, 9/16"
11-854	Crowfoot Wr-3/8" Dr, 5/8"
11-855	Crowfoot Wr-3/8" Dr, 11/16"
11-856	Crowfoot Wr-3/8" Dr, 3/4"
11-857	Crowfoot Wr-3/8" Dr, 13/16"
11-858	Crowfoot Wr-3/8" Dr, 7/8"
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-935	Speeder, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
12-112	Skt-1/2" Dr, 12-Pt, 3/8"
12-114	Skt-1/2" Dr, 12-Pt, 7/16"
12-116	Skt-1/2" Dr, 12-Pt, 1/2"
12-118	Skt-1/2" Dr, 12-Pt, 9/16"
12-120	Skt-1/2" Dr, 12-Pt, 5/8"
12-122	Skt-1/2" Dr, 12-Pt, 11/16"
12-124	Skt-1/2" Dr, 12-Pt, 3/4"
12-126	Skt-1/2" Dr, 12-Pt, 13/16"
12-128	Skt-1/2" Dr, 12-Pt, 7/8"
12-130	Skt-1/2" Dr, 12-Pt, 15/16"
12-132	Skt-1/2" Dr, 12-Pt, 1"
12-918	Hinge Handle, 1/2" Dr, 17"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
16-604	Steel Case
16-629	Steel Case
16-681	Steel Tray
16-685	Steel Tray
16-744	Cabinet, 7 Drawer
16-831	Socket Bar, 9"
16-832	Socket Bar, 11"
16-843	Clip, 3/8" Dr
25-004	Combo Wr-6-Pt, Short, 1/8"
25-005	Combo Wr-6-Pt, Short, 5/32"
25-006	Combo Wr-6-Pt, Short, 3/16"
25-007	Combo Wr-6-Pt, Short, 7/32"
25-008	Combo Wr-6-Pt, Short, 1/4"
25-009	Combo Wr-6-Pt, Short, 9/32"
25-010	Combo Wr-6-Pt, Short, 5/16"
25-111	Combo Wr-12-Pt, Short, 11/32"
25-112	Combo Wr-12-Pt, Short, 3/8"
25-210	Combo Wr-12-Pt, 5/16"
25-212	Combo Wr-12-Pt, 3/8"
25-214	Combo Wr-12-Pt, 7/16"
25-216	Combo Wr-12-Pt, 1/2"
25-218	Combo Wr-12-Pt, 9/16"
25-220	Combo Wr-12-Pt, 5/8"
25-222	Combo Wr-12-Pt, 11/16"
25-224	Combo Wr-12-Pt, 3/4"
25-226	Combo Wr-12-Pt, 13/16"
25-228	Combo Wr-12-Pt, 7/8"
25-230	Combo Wr-12-Pt, 15/16"
25-232	Combo Wr-12-Pt, 1"
25-234	Combo Wr-12-Pt, 1-1/16"
25-236	Combo Wr-12-Pt, 1-1/8"
25-240	Combo Wr-12-Pt, 1-1/4"
26-022	O.E. Wr- 1/4" x 5/16"
26-034	O.E. Wr- 5/16" x 3/8"
26-058	O.E. Wr- 7/16" x 1/2"
26-064	O.E. Wr- 7/16" x 9/16"
26-079	O.E. Wr- 9/16" x 5/8"
26-097	O.E. Wr- 5/8" x 3/4"
26-106	O.E. Wr- 11/16" x 3/4"
26-133	O.E. Wr- 13/16" x 7/8"
26-151	O.E. Wr- 15/16" x 1"
26-166	O.E. Wr- 1-1/16" x 1-1/8"
27-343	45° Box Wr-12-Pt, 3/8" x 7/16"
27-367	45° Box Wr-12-Pt, 1/2" x 9/16"
27-394	45° Box Wr-12-Pt, 5/8" x 11/16"
27-424	45° Box Wr-12-Pt, 3/4" x 7/8"
27-451	45° Box Wr-12-Pt, 15/16" x 1"
27-588	Ratch Box Wr-Straight, 1/4" x 5/16"
27-591	Ratch Box Wr-Straight, 3/8" x 7/16"
27-594	Ratch Box Wr-Straight, 1/2" x 9/16"
27-596	Ratch Box Wr-Straight, 5/8" x 11/16"
27-602	Ratch Box Wr-Straight, 3/4" x 7/8"
27-903	Mini Angle Wr-13/64"
27-904	Mini Angle Wr-15/64"
27-906	Mini Angle Wr-3/16"
27-907	Mini Angle Wr-7/32"
27-908	Mini Angle Wr-1/4"
27-909	Mini Angle Wr-9/32"
27-910	Mini Angle Wr-5/16"
27-911	Mini Angle Wr-11/32"
27-912	Mini Angle Wr-3/8"
27-914	Mini Angle Wr-7/16"
27-916	Mini Angle Wr-1/2"
27-918	Mini Angle Wr-9/16"
27-920	Mini Angle Wr-5/8"
28-212	Combo Flare Nut Wr-3/8"
28-214	Combo Flare Nut Wr-7/16"
28-216	Combo Flare Nut Wr-1/2"
28-218	Combo Flare Nut Wr-9/16"
28-220	Combo Flare Nut Wr-5/8"
28-222	Combo Flare Nut Wr-11/16"
28-224	Combo Flare Nut Wr-3/4"
28-404	Adjustable Wr-4"
28-406	Adjustable Wr-6"
28-408	Adjustable Wr-8"
28-410	Adjustable Wr-10"
28-412	Adjustable Wr-12"
29-308	Vinyl Roll
29-320	Vinyl Roll
29-332	Vinyl Roll
29-336	Vinyl Roll
29-340	Vinyl Roll
29-344	Vinyl Roll
29-360	Vinyl Roll
29-362	Vinyl Roll
29-368	Vinyl Roll
29-377	Vinyl Roll
64-085	Torque Wrench-1/2" Dr
66-101	Screwdriver-1/4 x 4
66-104	Screwdriver-5/16 x 6
66-107	Screwdriver-3/8 x 8
66-110	Screwdriver-3/8 x 10
66-113	Screwdriver-3/8 x 12
66-151	Screwdriver-#2 Stubby
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-166	Screwdriver-3/8 x 8, #4
66-201	Screwdriver-Stubby
66-607	Screwdriver-Offset, 3/8 x 6"
66-609	Screwdriver-Offset, #1 & #2, 4-1/2"
66-613	Screwdriver-Offset, #3 & #4, 6-1/2"
66-924	Screw Starter-Slotted-5"
66-933	Screw Starter-Phillips-5"
66-943	Nut Starter-5"
67-161	Pliers-Diagonal Cutting, 6"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-503	Pliers-Long Reach Duckbill, 8"
67-667	Pliers-Combo Slip Joint, 6-1/2"
67-717	Pliers-T & G, 5" Ignition
67-779	Pliers-T & G, 10"
67-901	Pliers-Cutter/Crimper
68-251	Aviation Snip, Left
68-253	Aviation Snip, Right
68-255	Aviation Snip, Straight
68-433	Measuring Tape-1/2 x 12'
69-009	Hammer-Soft Face, 12 Oz.
69-155	Hammer Tip-Tough
69-156	Hammer Tip-Medium Hard
69-444	Hammer-Ball Pein, 8 oz
69-448	Hammer-Ball Pein, 1 Lb
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-109	Punch-Pin, 3/16"
70-153	Punch-Solid, 1/16"
70-157	Punch-Solid, 1/8"
70-161	Punch-Solid, 3/16"
70-235	Punch-Center, 3/8"
70-303	Chisel-Cold, 5/16"
70-307	Chisel-Cold, 7/16"
70-309	Chisel-Cold, 1/2"
70-393	Chisel-Cape, 7/32"
70-421	Chisel-Diamond Point, 3/16"
70-793	Feeler Gauge Set, 25 Blades
70-827	Spark Plug Set, 9 Wires
70-865	Hacksaw, Flat Frame
70-929	Inspection Mirror, Rectangular
70-933	Magnetic Retrieving Tool
70-943	Spring Claw
70-977	Scraper, 9-1/2"
70-979	Scraper, 13"
56067	Hex Key Set, 9 pc, 5/64" to 1/4"
LP4	7" Locking Pliers, Straight Jaw

Master Industrial Maintenance Set 16-030

11-108	Skt-3/8" Dr, 12-Pt, 1/4"
11-110	Skt-3/8" Dr, 12-Pt, 9/32"
11-112	Skt-3/8" Dr, 12-Pt, 5/16"
11-114	Skt-3/8" Dr, 12-Pt, 7/16"
11-116	Skt-3/8" Dr, 12-Pt, 1/2"
11-118	Skt-3/8" Dr, 12-Pt, 9/16"
11-120	Skt-3/8" Dr, 12-Pt, 5/8"
11-122	Skt-3/8" Dr, 12-Pt, 11/16"
11-124	Skt-3/8" Dr, 12-Pt, 3/4"
11-126	Skt-3/8" Dr, 12-Pt, 13/16"
11-128	Skt-3/8" Dr, 12-Pt, 7/8"
11-312	Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314	Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316	Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318	Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320	Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322	Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324	Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-326	Skt-3/8" Dr, 12-Pt, Deep, 13/16"
11-328	Skt-3/8" Dr, 12-Pt, Deep, 7/8"
11-512	Skt-3/8" Dr, 12-Pt Flex, 3/8"
11-514	Skt-3/8" Dr, 12-Pt Flex, 7/16"
11-516	Skt-3/8" Dr, 12-Pt Flex, 1/2"
11-518	Skt-3/8" Dr, 12-Pt Flex, 9/16"
11-520	Skt-3/8" Dr, 12-Pt Flex, 5/8"
11-522	Skt-3/8" Dr, 12-Pt Flex, 11/16"
11-524	Skt-3/8" Dr, 12-Pt Flex, 3/4"
11-708	Skt-3/8" Dr, Hex, 1/8"
11-710	Skt-3/8" Dr, Hex, 5/32"
11-711	Skt-3/8" Dr, Hex, 3/16"
11-712	Skt-3/8" Dr, Hex, 7/32"
11-713	Skt-3/8" Dr, Hex, 1/4"
11-918	Hinge Handle, 3/8" Dr
11-921	Extension, 3/8" Dr, 1-1/2"
11-922	Extension, 3/8" Dr, 3"
11-925	Extension, 3/8" Dr, 8"
11-927	Extension, 3/8" Dr, 12"
11-929	Extension, 3/8" Dr, Flex, 7-1/4"
11-935	Speeder, 3/8" Dr
11-938	T-Handle, 3/8" Dr
11-944	Ratchet Adapter, 3/8" Dr
11-945	Ratchet Spinner, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
12-012	Skt-1/2" Dr, 6-Pt, 3/8"
12-014	Skt-1/2" Dr, 6-Pt, 7/16"
12-016	Skt-1/2" Dr, 6-Pt, 1/2"
12-018	Skt-1/2" Dr, 6-Pt, 9/16"
12-020	Skt-1/2" Dr, 6-Pt, 5/8"
12-022	Skt-1/2" Dr, 6-Pt, 11/16"
12-024	Skt-1/2" Dr, 6-Pt, 3/4"
12-026	Skt-1/2" Dr, 6-Pt, 13/16"
12-028	Skt-1/2" Dr, 6-Pt, 7/8"
12-030	Skt-1/2" Dr, 6-Pt, 15/16"
12-032	Skt-1/2" Dr, 6-Pt, 1"
12-112	Skt-1/2" Dr, 12-Pt, 3/8"
12-114	Skt-1/2" Dr, 12-Pt, 7/16"
12-116	Skt-1/2" Dr, 12-Pt, 1/2"
12-118	Skt-1/2" Dr, 12-Pt, 9/16"
12-120	Skt-1/2" Dr, 12-Pt, 5/8"
12-122	Skt-1/2" Dr, 12-Pt, 11/16"
12-124	Skt-1/2" Dr, 12-Pt, 3/4"
12-126	Skt-1/2" Dr, 12-Pt, 13/16"
12-128	Skt-1/2" Dr, 12-Pt, 7/8"
12-130	Skt-1/2" Dr, 12-Pt, 15/16"
12-132	Skt-1/2" Dr, 12-Pt, 1"
12-134	Skt-1/2" Dr, 12-Pt, 1-1/16"
12-136	Skt-1/2" Dr, 12-Pt, 1-1/8"
12-138	Skt-1/2" Dr, 12-Pt, 1-3/16"
12-140	Skt-1/2" Dr, 12-Pt, 1-1/4"
12-316	Skt-1/2" Dr, 12-Pt, Deep, 1/2"
12-318	Skt-1/2" Dr, 12-Pt, Deep, 9/16"
12-320	Skt-1/2" Dr, 12-Pt, Deep, 5/8"
12-322	Skt-1/2" Dr, 12-Pt, Deep, 11/16"
12-324	Skt-1/2" Dr, 12-Pt, Deep, 3/4"
12-326	Skt-1/2" Dr, 12-Pt, Deep, 13/16"
12-328	Skt-1/2" Dr, 12-Pt, Deep, 7/8"
12-330	Skt-1/2" Dr, 12-Pt, Deep, 15/16"
12-332	Skt-1/2" Dr, 12-Pt, Deep, 1"
12-334	Skt-1/2" Dr, 12-Pt, Deep, 1-1/16"
12-336	Skt-1/2" Dr, 12-Pt, Deep, 1-1/8"
12-504	Skt-1/2" Dr, Spark Plug, 13/16"
12-516	Skt-1/2" Dr, 12-Pt Flex, 1/2"
12-518	Skt-1/2" Dr, 12-Pt Flex, 9/16"
12-520	Skt-1/2" Dr, 12-Pt Flex, 5/8"
12-522	Skt-1/2" Dr, 12-Pt Flex, 11/16"
12-524	Skt-1/2" Dr, 12-Pt Flex, 3/4"
12-714	Skt-1/2" Dr, Hex, 5/16"
12-715	Skt-1/2" Dr, Hex, 3/8"
12-716	Skt-1/2" Dr, Hex, 7/16"
12-717	Skt-1/2" Dr, Hex, 1/2"
12-718	Skt-1/2" Dr, Hex, 9/16"
12-719	Skt-1/2" Dr, Hex, 5/8"
12-892	Skt-1/2" Dr, Drag Link, 7/64 x 15/16"
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-938	T-Handle, 1/2" Dr
12-944	Ratchet Adapter, 1/2" Dr
12-947	Universal Joint, 1/2" Dr
12-948	Stud Remover, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
12-973	Ratchet, 1/2" Dr, 15"
13-128	Skt, 3/4" Dr, 12-Pt, 7/8"
13-130	Skt, 3/4" Dr, 12-Pt, 15/16"
13-132	Skt, 3/4" Dr, 12-Pt, 1"
13-134	Skt, 3/4" Dr, 12-Pt, 1-1/16"
13-136	Skt, 3/4" Dr, 12-Pt, 1-1/8"
13-140	Skt, 3/4" Dr, 12-Pt, 1-1/4"
13-142	Skt, 3/4" Dr, 12-Pt, 1-5/16"
13-144	Skt, 3/4" Dr, 12-Pt, 1-3/8"
13-146	Skt, 3/4" Dr, 12-Pt, 1-7/16"
13-148	Skt, 3/4" Dr, 12-Pt, 1-1/2"
13-152	Skt, 3/4" Dr, 12-Pt, 1-5/8"
13-154	Skt, 3/4" Dr, 12-Pt, 1-11/16"
13-156	Skt, 3/4" Dr, 12-Pt, 1-3/4"
13-158	Skt, 3/4" Dr, 12-Pt, 1-13/16"
13-160	Skt, 3/4" Dr, 12-Pt, 1-7/8"
13-164	Skt, 3/4" Dr, 12-Pt, 2"
13-906	Ratchet, 3/4" Dr, 19
13-918	Hinge Handle, 3/4" Dr, 22"
13-923	Extension, 3/4" Dr, 8"
13-925	Extension, 3/4" Dr, 16"
13-938	T-Handle, 3/4" Dr
13-947	Universal Joint, 3/4" Dr
16-760	Steel Chest, 10-Drawer
16-762	Steel Cabinet, 8-Drawer
26-007	O.E. Wr- 3/16" x 1/4"
26-034	O.E. Wr- 5/16" x 3/8"
26-043	O.E. Wr- 3/8" x 7/16"
26-058	O.E. Wr- 7/16" x 1/2"
26-067	O.E. Wr- 1/2" x 9/16"
26-079	O.E. Wr- 9/16" x 5/8"
26-094	O.E. Wr- 5/8" x 11/16"
26-097	O.E. Wr- 5/8" x 3/4"
26-106	O.E. Wr- 11/16" x 3/4"
26-124	O.E. Wr- 3/4" x 7/8"
26-133	O.E. Wr- 13/16" x 7/8"
26-145	O.E. Wr- 7/8" x 1-1/16"
26-151	O.E. Wr- 15/16" x 1"
26-166	O.E. Wr- 1-1/16" x 1-1/8"
26-169	O.E. Wr- 1-1/16" x 1-1/4"
26-178	O.E. Wr- 1-1/8" x 1-1/4"
26-190	O.E. Wr- 1-3/8" x 1-7/16"
26-202	O.E. Wr- 1-1/2" x 1-5/8"
26-643	15° Box Wr-12-Pt, 3/8" x 7/16"
26-658	15° Box Wr-12-Pt, 7/16" x 1/2"
26-667	15° Box Wr-12-Pt, 1/2" x 9/16"
26-679	15° Box Wr-12-Pt, 9/16" x 5/8"
26-694	15° Box Wr-12-Pt, 5/8" x 11/16"
26-697	15° Box Wr-12-Pt, 5/8" x 3/4"
26-706	15° Box Wr-12-Pt, 11/16"x3/4"
26-724	15° Box Wr-12-Pt, 3/4" x 7/8"
26-733	15° Box Wr-12-Pt, 13/16"x7/8"
26-745	15° Box Wr-12-Pt, 7/8" x 1-1/16"
26-751	15° Box Wr-12-Pt, 15/16" x 1"
26-754	15° Box Wr-12-Pt, 15/16" x 1-1/16"
26-766	15° Box Wr-12-Pt, 1-1/16" x 1-1/8"
26-769	15° Box Wr-12-Pt, 1-1/16" x 1-1/4"
26-778	15° Box Wr-12-Pt, 1-1/4" x 1-5/16"
26-793	15° Box Wr-12-Pt, 1-7/16" x 1-1/2"
26-799	15° Box Wr-12-Pt, 1-7/16" x 1-5/8"
27-588	Ratch Box Wr-Straight, 1/4" x 5/16"
27-591	Ratch Box Wr-Straight, 3/8" x 7/16"
27-594	Ratch Box Wr-Straight, 1/2" x 9/16"
27-596	Ratch Box Wr-Straight, 5/8" x 11/16"

ARMSTRONG TOOLS A Danaher Brand

Master Set Contents

Master Industrial Maintenance Set 16-030 Cont.

27-599	Ratch Box Wr-Straight, 5/8" x 3/4"
27-602	Ratch Box Wr-Straight, 3/4" x 7/8"
28-408	Adjustable Wr-8"
28-410	Adjustable Wr-10"
28-412	Adjustable Wr-12"
64-086	Torque Wrench-1/2" Dr
66-151	Screwdriver-#2 Stubby
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-166	Screwdriver-3/8 x 8, #4
66-201	Screwdriver-Stubby
66-207	Screwdriver-1/4 x 4
66-210	Screwdriver-1/4 x 6
66-219	Screwdriver-5/16 x 8
66-225	Screwdriver-3/8 x 8
66-228	Screwdriver-3/8 x 10
66-231	Screwdriver-3/8 x 12
66-251	Screwdriver-Cabinet, 1/8 x 3-1/2"
66-260	Screwdriver-Cabinet, 3/16 x 3
66-266	Screwdriver-Cabinet, 3/16 x 6
66-924	Screw Starter-Slotted-5"
66-933	Screw Starter-Phillips-5"
66-943	Nut Starter-5"
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-669	Pliers-Combo Slip Joint, 8"
67-699	Pliers-Combo Slip Joint, Hose Clamp 8"
67-717	Pliers-T & G, 5" Ignition
67-779	Pliers-T & G, 10"
67-831	Pliers-Battery Pliers, 7-1/2"
67-901	Pliers-Cutter/Crimper
68-433	Measuring Tape-1/2 x 12'
69-009	Hammer-Soft Face, 12 Oz.
69-155	Hammer Tip-Tough
69-156	Hammer Tip-Medium Hard
69-444	Hammer-Ball Pein, 8 oz
69-448	Hammer-Ball Pein, 1 Lb
69-452	Hammer-Ball Pein, 2 Lbs
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-107	Punch-Pin, 5/32"
70-109	Punch-Pin, 3/16"
70-131	Punch-Pin, 1/4"
70-155	Punch-Solid, 3/32"
70-157	Punch-Solid, 1/8"
70-161	Punch-Solid, 3/16"
70-163	Punch-Solid, 7/32"
70-165	Punch-Solid, 1/4"
70-199	Punch-Long Taper, 5/16"
70-235	Punch-Center, 3/8"
70-239	Punch-Center, 1/2"
70-307	Chisel-Cold, 7/16"
70-309	Chisel-Cold, 1/2"
70-311	Chisel-Cold, 5/8"
70-313	Chisel-Cold, 3/4"
70-315	Chisel-Cold, 7/8"
70-519	Pry Bar-Rolling Head, 1/2 x 15"
70-863	Hacksaw, Low Clearance
70-865	Hacksaw, Flat Frame
LP5	10" Locking Pliers, Curved Jaw
56004	Hex Key Set, 9 pc. 5/64" to 1/4"

General Purpose Set 16-035

11-108	Skt-3/8" Dr, 12-Pt, 1/4"
11-110	Skt-3/8" Dr, 12-Pt, 9/32"
11-112	Skt-3/8" Dr, 12-Pt, 5/16"
11-114	Skt-3/8" Dr, 12-Pt, 7/16"
11-116	Skt-3/8" Dr, 12-Pt, 1/2"
11-118	Skt-3/8" Dr, 12-Pt, 9/16"
11-120	Skt-3/8" Dr, 12-Pt, 5/8"
11-122	Skt-3/8" Dr, 12-Pt, 11/16"
11-124	Skt-3/8" Dr, 12-Pt, 3/4"
11-126	Skt-3/8" Dr, 12-Pt, 13/16"
11-128	Skt-3/8" Dr, 12-Pt, 7/8"
11-312	Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314	Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316	Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318	Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320	Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322	Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324	Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-326	Skt-3/8" Dr, 12-Pt, Deep, 13/16"
11-328	Skt-3/8" Dr, 12-Pt, Deep, 7/8"
11-501	Skt-3/8" Dr, Spark Plug, 5/8"
11-504	Skt-3/8" Dr, Spark Plug, 13/16"
11-512	Skt-3/8" Dr, 12-Pt Flex, 3/8"
11-514	Skt-3/8" Dr, 12-Pt Flex, 7/16"
11-516	Skt-3/8" Dr, 12-Pt Flex, 1/2"
11-518	Skt-3/8" Dr, 12-Pt Flex, 9/16"
11-520	Skt-3/8" Dr, 12-Pt Flex, 5/8"
11-522	Skt-3/8" Dr, 12-Pt Flex, 11/16"
11-524	Skt-3/8" Dr, 12-Pt Flex, 3/4"
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-935	Speeder, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
12-112	Skt-1/2" Dr, 12-Pt, 3/8"
12-114	Skt-1/2" Dr, 12-Pt, 7/16"
12-116	Skt-1/2" Dr, 12-Pt, 1/2"
12-118	Skt-1/2" Dr, 12-Pt, 9/16"
12-120	Skt-1/2" Dr, 12-Pt, 5/8"
12-122	Skt-1/2" Dr, 12-Pt, 11/16"
12-124	Skt-1/2" Dr, 12-Pt, 3/4"
12-126	Skt-1/2" Dr, 12-Pt, 13/16"
12-128	Skt-1/2" Dr, 12-Pt, 7/8"
12-130	Skt-1/2" Dr, 12-Pt, 15/16"
12-132	Skt-1/2" Dr, 12-Pt, 1"
12-134	Skt-1/2" Dr, 12-Pt, 1-1/16"
12-136	Skt-1/2" Dr, 12-Pt, 1-1/8"
12-138	Skt-1/2" Dr, 12-Pt, 1-3/16"
12-140	Skt-1/2" Dr, 12-Pt, 1-1/4"
12-316	Skt-1/2" Dr, 12-Pt, Deep, 1/2"
12-318	Skt-1/2" Dr, 12-Pt, Deep, 9/16"
12-320	Skt-1/2" Dr, 12-Pt, Deep, 5/8"
12-322	Skt-1/2" Dr, 12-Pt, Deep, 11/16"
12-324	Skt-1/2" Dr, 12-Pt, Deep, 3/4"
12-326	Skt-1/2" Dr, 12-Pt, Deep, 13/16"
12-328	Skt-1/2" Dr, 12-Pt, Deep, 7/8"
12-330	Skt-1/2" Dr, 12-Pt, Deep,15/16"
12-332	Skt-1/2" Dr, 12-Pt, Deep, 1"
12-334	Skt-1/2" Dr, 12-Pt, Deep, 1-1/16"
12-336	Skt-1/2" Dr, 12-Pt, Deep, 1-1/8"
12-918	Hinge Handle, 1/2" Dr, 17"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
16-722	Steel Chest, 3-Drawer
25-008	Combo Wr-6-Pt, Short, 1/4"
25-010	Combo Wr-6-Pt, Short, 5/16"
25-112	Combo Wr-12-Pt, Short, 3/8"
25-114	Combo Wr-12-Pt, Short, 7/16"
25-116	Combo Wr-12-Pt, Short, 1/2"
25-118	Combo Wr-12-Pt, Short, 9/16"
25-120	Combo Wr-12-Pt, Short, 5/8"
25-122	Combo Wr-12-Pt, Short, 11/16"
25-124	Combo Wr-12-Pt, Short, 3/4"
25-212	Combo Wr-12-Pt, 3/8"
25-214	Combo Wr-12-Pt, 7/16"
25-216	Combo Wr-12-Pt, 1/2"
25-218	Combo Wr-12-Pt, 9/16"
25-220	Combo Wr-12-Pt, 5/8"
25-222	Combo Wr-12-Pt, 11/16"
25-224	Combo Wr-12-Pt, 3/4"
25-226	Combo Wr-12-Pt, 13/16"
25-228	Combo Wr-12-Pt, 7/8"
25-230	Combo Wr-12-Pt, 15/16"
25-232	Combo Wr-12-Pt, 1"
25-234	Combo Wr-12-Pt, 1-1/16"
25-236	Combo Wr-12-Pt, 1-1/8"
25-238	Combo Wr-12-Pt, 1-3/16"
25-240	Combo Wr-12-Pt, 1-1/4"
27-903	Mini Angle Wr-13/64"
27-904	Mini Angle Wr-15/64"
27-906	Mini Angle Wr-3/16"
27-907	Mini Angle Wr-7/32"
27-908	Mini Angle Wr-1/4"
27-909	Mini Angle Wr-9/32"
27-910	Mini Angle Wr-5/16"
27-911	Mini Angle Wr-11/32"
27-912	Mini Angle Wr-3/8"
27-914	Mini Angle Wr-7/16"
28-410	Adjustable Wr-10"
29-360	Vinyl Roll
66-101	Screwdriver-1/4 x 4
66-104	Screwdriver-5/16 x 6
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-260	Screwdriver-Cabinet, 3/16 x 3
66-263	Screwdriver-Cabinet, 3/16 x 4
66-264	Screwdriver-Cabinet, 3/16 x 5
67-161	Pliers-Diagonal Cutting, 6"
67-367	Pliers-Needle Nose, 6-5/8"
67-659	Pliers-Combo Slip Joint, 8"
67-717	Pliers-T & G, 5" Ignition
67-769	Pliers-T & G, 10"
69-009	Hammer-Soft Face, 12 Oz.
69-155	Hammer Tip-Tough
69-156	Hammer Tip-Medium Hard
69-448	Hammer-Ball Pein, 1 Lb
70-105	Punch-Pin, 1/8"
70-109	Punch-Pin, 3/16"
70-131	Punch-Pin, 1/4"
70-157	Punch-Solid, 1/8"
70-161	Punch-Solid, 3/16"
70-165	Punch-Solid, 1/4"
70-235	Punch-Center, 3/8"
70-309	Chisel-Cold, 1/2"
70-313	Chisel-Cold, 3/4"
70-815	Master Go/No-Go Gauge Set, 22 Blades
70-827	Spark Plug Set, 9 Wires
70-865	Hacksaw, Flat Frame
70-979	Scraper, 13"
56004	Hex Key Set, 7 pc, 5/64" to 1/4"
56067	Hex Key Set, 9 pc, 5/64" to 1/4"
LP1	10" Locking Pliers, Straight Jaw

Railroad Mechanic's Set 16-045

11-112	Skt-3/8" Dr, 12-Pt, 5/16"
11-114	Skt-3/8" Dr, 12-Pt, 7/16"
11-116	Skt-3/8" Dr, 12-Pt, 1/2"
11-118	Skt-3/8" Dr, 12-Pt, 9/16"
11-120	Skt-3/8" Dr, 12-Pt, 5/8"
11-122	Skt-3/8" Dr, 12-Pt, 11/16"
11-124	Skt-3/8" Dr, 12-Pt, 3/4"
11-312	Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314	Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316	Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318	Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320	Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322	Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324	Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-512	Skt-3/8" Dr, 12-Pt Flex, 3/8"
11-514	Skt-3/8" Dr, 12-Pt Flex, 7/16"
11-516	Skt-3/8" Dr, 12-Pt Flex, 1/2"
11-518	Skt-3/8" Dr, 12-Pt Flex, 9/16"
11-520	Skt-3/8" Dr, 12-Pt Flex, 5/8"
11-522	Skt-3/8" Dr, 12-Pt Flex, 11/16"
11-524	Skt-3/8" Dr, 12-Pt Flex, 3/4"
11-708	Skt-3/8" Dr, Hex, 1/8"
11-710	Skt-3/8" Dr, Hex, 5/32"
11-711	Skt-3/8" Dr, Hex, 3/16"
11-712	Skt-3/8" Dr, Hex, 7/32"
11-713	Skt-3/8" Dr, Hex, 1/4"
11-714	Skt-3/8" Dr, Hex, 5/16"
11-715	Skt-3/8" Dr, Hex, 3/8"
11-802	Skt-3/8" Dr, Screwdriver, 1/4"
11-918	Hinge Handle, 3/8" Dr
11-921	Extension, 3/8" Dr, 1-1/2"
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-925	Extension, 3/8" Dr, 8"
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
12-112	Skt-1/2" Dr, 12-Pt, 3/8"
12-114	Skt-1/2" Dr, 12-Pt, 7/16"
12-116	Skt-1/2" Dr, 12-Pt, 1/2"
12-118	Skt-1/2" Dr, 12-Pt, 9/16"
12-120	Skt-1/2" Dr, 12-Pt, 5/8"
12-122	Skt-1/2" Dr, 12-Pt, 11/16"
12-124	Skt-1/2" Dr, 12-Pt, 3/4"
12-126	Skt-1/2" Dr, 12-Pt, 13/16"
12-128	Skt-1/2" Dr, 12-Pt, 7/8"
12-130	Skt-1/2" Dr, 12-Pt, 15/16"
12-132	Skt-1/2" Dr, 12-Pt, 1"
12-134	Skt-1/2" Dr, 12-Pt, 1-1/16"
12-136	Skt-1/2" Dr, 12-Pt, 1-1/8"
12-140	Skt-1/2" Dr, 12-Pt, 1-1/4"
12-142	Skt-1/2" Dr, 12-Pt, 1-5/16"
12-144	Skt-1/2" Dr, 12-Pt, 1-3/8"
12-146	Skt-1/2" Dr, 12-Pt, 1-7/16"
12-148	Skt-1/2" Dr, 12-Pt, 1-1/2"
12-316	Skt-1/2" Dr, 12-Pt, Deep, 1/2"
12-318	Skt-1/2" Dr, 12-Pt, Deep, 9/16"
12-320	Skt-1/2" Dr, 12-Pt, Deep, 5/8"
12-322	Skt-1/2" Dr, 12-Pt, Deep, 11/16"
12-324	Skt-1/2" Dr, 12-Pt, Deep, 3/4"
12-326	Skt-1/2" Dr, 12-Pt, Deep, 13/16"
12-328	Skt-1/2" Dr, 12-Pt, Deep, 7/8"
12-330	Skt-1/2" Dr, 12-Pt, Deep, 15/16"
12-332	Skt-1/2" Dr, 12-Pt, Deep, 1"
12-334	Skt-1/2" Dr, 12-Pt, Deep, 1-1/16"
12-336	Skt-1/2" Dr, 12-Pt, Deep, 1-1/8"
12-717	Skt-1/2" Dr, Hex, 1/2"
12-718	Skt-1/2" Dr, Hex, 9/16"
12-719	Skt-1/2" Dr, Hex, 5/8"
12-918	Hinge Handle, 1/2" Dr, 17"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-927	Extension, 1/2" Dr, 20"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
16-651	Steel Case
16-653	Steel Tray for 16-651
16-685	Steel Tray
25-212	Combo Wr-12-Pt, 3/8"
25-214	Combo Wr-12-Pt, 7/16"
25-216	Combo Wr-12-Pt, 1/2"
25-218	Combo Wr-12-Pt, 9/16"
25-220	Combo Wr-12-Pt, 5/8"
25-222	Combo Wr-12-Pt, 11/16"
25-224	Combo Wr-12-Pt, 3/4"
25-226	Combo Wr-12-Pt, 13/16"
25-228	Combo Wr-12-Pt, 7/8"
25-230	Combo Wr-12-Pt, 15/16"
25-232	Combo Wr-12-Pt, 1"
25-234	Combo Wr-12-Pt, 1-1/16"
25-236	Combo Wr-12-Pt, 1-1/8"
25-240	Combo Wr-12-Pt, 1-1/4"
25-242	Combo Wr-12-Pt, 1-5/16"
25-244	Combo Wr-12-Pt, 1-3/8"
25-246	Combo Wr-12-Pt, 1-7/16"
25-248	Combo Wr-12-Pt, 1-1/2"
27-602	Ratch Box Wr-Straight, 3/4" x 7/8"
28-130	Flare Nut Wr-3/8" x 7/16"
28-135	Flare Nut Wr-1/2" x 9/16"
28-140	Flare Nut Wr-5/8" x 11/16"
28-145	Flare Nut Wr-3/4" x 1"
28-408	Adjustable Wr-8"
28-410	Adjustable Wr-10"
28-415	Adjustable Wr-15"
66-151	Screwdriver-#2 Stubby
66-160	Screwdriver-1/4 x 4, # 2
66-201	Screwdriver-Stubby
66-207	Screwdriver-1/4 x 4
66-216	Screwdriver-5/16 x 6
66-225	Screwdriver-3/8 x 8
66-231	Screwdriver-3/8 x 12
66-924	Screw Starter-Slotted-5"
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-699	Pliers-Combo Slip Joint, Hose Clamp 8"
67-779	Pliers-T & G, 10"
67-901	Pliers-Cutter/Crimper
68-065	Plier Set-Ret Ring
69-019	Hammer-Soft Face, 2 Lbs.
69-165	Hammer Tip-Tough
69-166	Hammer Tip-Medium Hard
69-448	Hammer-Ball Pein, 1 Lb
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-107	Punch-Pin, 5/32"
70-109	Punch-Pin, 3/16"
70-131	Punch-Pin, 1/4"
70-193	Punch-Long Taper, 3/16"
70-197	Punch-Long Taper, 1/4"
70-235	Punch-Center, 3/8"
70-309	Chisel-Cold, 1/2"
70-313	Chisel-Cold, 3/4"
70-317	Chisel-Cold, 1"
70-393	Chisel-Cape, 7/32"
70-503	Pinch Bar-5/8 x 16
70-519	Pry Bar-Rolling Head, 1/2 x 15"
70-793	Feeler Gauge Set, 25 Blades
70-867	Hacksaw, Tubular
70-871	Hacksaw Blades
70-933	Magnetic Retrieving Tool
70-943	Spring Claw
73-010	Pipe Wrench-10"
73-018	Pipe Wrench-18"
56032	Hex Key Set, 15 pc, .028" to 3/8"
LP5	10" Locking Pliers, Curved Jaw

Mechanic's Starter Set 16-053

12-112	Skt-1/2" Dr, 12-Pt, 3/8"
12-114	Skt-1/2" Dr, 12-Pt, 7/16"
12-116	Skt-1/2" Dr, 12-Pt, 1/2"
12-118	Skt-1/2" Dr, 12-Pt, 9/16"
12-120	Skt-1/2" Dr, 12-Pt, 5/8"
12-122	Skt-1/2" Dr, 12-Pt, 11/16"
12-124	Skt-1/2" Dr, 12-Pt, 3/4"
12-126	Skt-1/2" Dr, 12-Pt, 13/16"
12-128	Skt-1/2" Dr, 12-Pt, 7/8"
12-130	Skt-1/2" Dr, 12-Pt, 15/16"
12-132	Skt-1/2" Dr, 12-Pt, 1"
12-134	Skt-1/2" Dr, 12-Pt, 1-1/16"
12-136	Skt-1/2" Dr, 12-Pt, 1-1/8"
12-138	Skt-1/2" Dr, 12-Pt, 1-3/16"
12-140	Skt-1/2" Dr, 12-Pt, 1-1/4"
12-316	Skt-1/2" Dr, 12-Pt, Deep, 1/2"
12-318	Skt-1/2" Dr, 12-Pt, Deep, 9/16"
12-320	Skt-1/2" Dr, 12-Pt, Deep, 5/8"
12-322	Skt-1/2" Dr, 12-Pt, Deep, 11/16"
12-324	Skt-1/2" Dr, 12-Pt, Deep, 3/4"
12-326	Skt-1/2" Dr, 12-Pt, Deep, 13/16"
12-328	Skt-1/2" Dr, 12-Pt, Deep, 7/8"
12-330	Skt-1/2" Dr, 12-Pt, Deep, 15/16"
12-332	Skt-1/2" Dr, 12-Pt, Deep, 1"
12-334	Skt-1/2" Dr, 12-Pt, Deep, 1-1/16"
12-336	Skt-1/2" Dr, 12-Pt, Deep, 1-1/8"
12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-935	Speeder, 1/2" Dr
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
16-651	Steel Case
16-653	Steel Tray for 16-651
25-212	Combo Wr-12-Pt, 3/8"
25-214	Combo Wr-12-Pt, 7/16"
25-216	Combo Wr-12-Pt, 1/2"
25-218	Combo Wr-12-Pt, 9/16"
25-220	Combo Wr-12-Pt, 5/8"
25-222	Combo Wr-12-Pt, 11/16"
25-224	Combo Wr-12-Pt, 3/4"
25-226	Combo Wr-12-Pt, 13/16"
25-228	Combo Wr-12-Pt, 7/8"
25-230	Combo Wr-12-Pt, 15/16"
25-232	Combo Wr-12-Pt, 1"
25-234	Combo Wr-12-Pt, 1-1/16"
25-236	Combo Wr-12-Pt, 1-1/8"
25-240	Combo Wr-12-Pt, 1-1/4"
28-408	Adjustable Wr-8"
28-410	Adjustable Wr-10"
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-207	Screwdriver-1/4 x 4
66-216	Screwdriver-5/16 x 6
66-225	Screwdriver-3/8 x 8
66-228	Screwdriver-3/8 x 10
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-367	Pliers-Needle Nose, 6-5/8"
67-659	Pliers-Combo Slip Joint, 8"
67-779	Pliers-T & G, 10"
69-019	Hammer-Soft Face, 2 Lbs.
69-165	Hammer Tip-Tough
69-166	Hammer Tip-Medium Hard
69-168	Hammer Tip-Hard
69-450	Hammer-Ball Pein, 1-1/2 Lbs
70-105	Punch-Pin, 1/8"
70-109	Punch-Pin, 3/16"
70-197	Punch-Long Taper, 1/4"
70-239	Punch-Center, 1/2"
70-305	Chisel-Cold, 3/8"
70-309	Chisel-Cold, 1/2"
70-313	Chisel-Cold, 3/4"
70-793	Feeler Gauge Set, 25 Blades
70-929	Inspection Mirror, Rectangular
70-979	Scraper, 13"
56067	Hex Key Set, 9 pc, 5/64" to 1/4"
LP1	10" Locking Pliers, Straight Jaw

Metric Mechanic's Starter Set 43-053

12-918	Hinge Handle, 1/2" Dr, 17"
12-921	Extension, 1/2" Dr, 2"
12-923	Extension, 1/2" Dr, 5"
12-924	Extension, 1/2" Dr, 10"
12-947	Universal Joint, 1/2" Dr
12-972	Ratchet, 1/2" Dr, 10-1/2"
16-722	Steel Chest, 3-Drawer
28-408	Adjustable Wr-8"
28-410	Adjustable Wr-10"
39-110	Skt-1/2" Dr, 12-Pt, 10mm
39-111	Skt-1/2" Dr, 12-Pt, 11mm
39-112	Skt-1/2" Dr, 12-Pt, 12mm
39-113	Skt-1/2" Dr, 12-Pt, 13mm
39-114	Skt-1/2" Dr, 12-Pt, 14mm
39-115	Skt-1/2" Dr, 12-Pt, 15mm
39-116	Skt-1/2" Dr, 12-Pt, 16mm
39-117	Skt-1/2" Dr, 12-Pt, 17mm
39-118	Skt-1/2" Dr, 12-Pt, 18mm
39-119	Skt-1/2" Dr, 12-Pt, 19mm
39-120	Skt-1/2" Dr, 12-Pt, 20mm
39-121	Skt-1/2" Dr, 12-Pt, 21mm
39-122	Skt-1/2" Dr, 12-Pt, 22mm
39-123	Skt-1/2" Dr, 12-Pt, 23mm
39-124	Skt-1/2" Dr, 12-Pt, 24mm
39-125	Skt-1/2" Dr, 12-Pt, 25mm
39-126	Skt-1/2" Dr, 12-Pt, 26mm
39-127	Skt-1/2" Dr, 12-Pt, 27mm
39-128	Skt-1/2" Dr, 12-Pt, 28mm
39-129	Skt-1/2" Dr, 12-Pt, 29mm
39-130	Skt-1/2" Dr, 12-Pt, 30mm
39-132	Skt-1/2" Dr, 12-Pt, 32mm
39-310	Skt-1/2" Dr, 12-Pt, Deep, 10mm
39-311	Skt-1/2" Dr, 12-Pt, Deep, 11mm
39-312	Skt-1/2" Dr, 12-Pt, Deep, 12mm
39-313	Skt-1/2" Dr, 12-Pt, Deep, 13mm
39-314	Skt-1/2" Dr, 12-Pt, Deep, 14mm
39-315	Skt-1/2" Dr, 12-Pt, Deep, 15mm
39-316	Skt-1/2" Dr, 12-Pt, Deep, 16mm
39-317	Skt-1/2" Dr, 12-Pt, Deep, 17mm
39-318	Skt-1/2" Dr, 12-Pt, Deep, 18mm
39-319	Skt-1/2" Dr, 12-Pt, Deep, 19mm
39-320	Skt-1/2" Dr, 12-Pt, Deep, 20mm
39-321	Skt-1/2" Dr, 12-Pt, Deep, 21mm
39-322	Skt-1/2" Dr, 12-Pt, Deep, 22mm
39-323	Skt-1/2" Dr, 12-Pt, Deep, 23mm
39-324	Skt-1/2" Dr, 12-Pt, Deep, 24mm
39-711	Skt-1/2" Dr, Hex, 6mm
39-713	Skt-1/2" Dr, Hex, 8mm
39-715	Skt-1/2" Dr, Hex, 10mm
39-717	Skt-1/2" Dr, Hex, 12mm
39-719	Skt-1/2" Dr, Hex,14mm
39-722	Skt-1/2" Dr, Hex,17mm
52-210	Combo Wr-12-Pt, 10mm
52-211	Combo Wr-12-Pt, 11mm
52-212	Combo Wr-12-Pt, 12mm
52-213	Combo Wr-12-Pt, 13mm
52-214	Combo Wr-12-Pt, 14mm
52-215	Combo Wr-12-Pt, 15mm
52-216	Combo Wr-12-Pt, 16mm
52-217	Combo Wr-12-Pt, 17mm
52-218	Combo Wr-12-Pt, 18mm
52-219	Combo Wr-12-Pt, 19mm
52-220	Combo Wr-12-Pt, 20mm
52-221	Combo Wr-12-Pt, 21mm
52-222	Combo Wr-12-Pt, 22mm
52-223	Combo Wr-12-Pt, 23mm
52-224	Combo Wr-12-Pt, 24mm
52-225	Combo Wr-12-Pt, 25mm
52-226	Combo Wr-12-Pt, 26mm
52-227	Combo Wr-12-Pt, 27mm
52-228	Combo Wr-12-Pt, 28mm
52-229	Combo Wr-12-Pt, 29mm
52-230	Combo Wr-12-Pt, 30mm
52-232	Combo Wr-12-Pt, 32mm
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-207	Screwdriver-1/4 x 4
66-216	Screwdriver-5/16 x 6
66-225	Screwdriver-3/8 x 8
66-228	Screwdriver-3/8 x 10
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-367	Pliers-Needle Nose, 6-5/8"
67-669	Pliers-Combo Slip Joint, 8"
67-779	Pliers-T & G, 10"
69-013	Hammer-Soft Face, 1-1/4 Lbs
69-153	Hammer Tip-Medium
69-156	Hammer Tip-Medium Hard
69-448	Hammer-Ball Pein, 1 Lb
70-105	Punch-Pin, 1/8"
70-109	Punch-Pin, 3/16"
70-197	Punch-Long Taper, 1/4"
70-235	Punch-Center, 3/8"
70-305	Chisel-Cold, 3/8"
70-309	Chisel-Cold, 1/2"
70-313	Chisel-Cold, 3/4"
70-929	Inspection Mirror, Rectangular
70-933	Magnetic Retrieving Tool
70-979	Scraper, 13"
LP1	10" Locking Pliers, Straight Jaw
56036	Hex Key Set, 15 pc. 0.7mm to 17mm

Apprentice Tool Set 16-055

11-108	Skt-3/8" Dr, 12-Pt, 1/4"
11-110	Skt-3/8" Dr, 12-Pt, 9/32"
11-112	Skt-3/8" Dr, 12-Pt, 5/16"
11-114	Skt-3/8" Dr, 12-Pt, 7/16"
11-116	Skt-3/8" Dr, 12-Pt, 1/2"
11-118	Skt-3/8" Dr, 12-Pt, 9/16"
11-120	Skt-3/8" Dr, 12-Pt, 5/8"
11-122	Skt-3/8" Dr, 12-Pt, 11/16"
11-124	Skt-3/8" Dr, 12-Pt, 3/4"
11-126	Skt-3/8" Dr, 12-Pt, 13/16"
11-128	Skt-3/8" Dr, 12-Pt, 7/8"
11-312	Skt-3/8" Dr, 12-Pt, Deep, 5/16"
11-314	Skt-3/8" Dr, 12-Pt, Deep, 7/16"
11-316	Skt-3/8" Dr, 12-Pt, Deep, 1/2"
11-318	Skt-3/8" Dr, 12-Pt, Deep, 9/16"
11-320	Skt-3/8" Dr, 12-Pt, Deep, 5/8"
11-322	Skt-3/8" Dr, 12-Pt, Deep, 11/16"
11-324	Skt-3/8" Dr, 12-Pt, Deep, 3/4"
11-326	Skt-3/8" Dr, 12-Pt, Deep, 13/16"
11-328	Skt-3/8" Dr, 12-Pt, Deep, 7/8"
11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-935	Speeder, 3/8" Dr
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
16-651	Steel Case
16-653	Steel Tray for 16-651
25-208	Combo Wr-12-Pt, 1/4"
25-210	Combo Wr-12-Pt, 5/16"
25-212	Combo Wr-12-Pt, 3/8"
25-214	Combo Wr-12-Pt, 7/16"
25-216	Combo Wr-12-Pt, 1/2"
25-218	Combo Wr-12-Pt, 9/16"
25-220	Combo Wr-12-Pt, 5/8"
25-222	Combo Wr-12-Pt, 11/16"
25-224	Combo Wr-12-Pt, 3/4"
25-226	Combo Wr-12-Pt, 13/16"
25-228	Combo Wr-12-Pt, 7/8"
28-406	Adjustable Wr-6"
28-408	Adjustable Wr-8"
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-207	Screwdriver-1/4 x 4
66-216	Screwdriver-5/16 x 6
66-225	Screwdriver-3/8 x 8
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-367	Pliers-Needle Nose, 6-5/8"
67-657	Pliers-Combo Slip Joint, 6-1/2"
67-779	Pliers-T & G, 10"
69-013	Hammer-Soft Face, 1-1/4 Lbs
69-155	Hammer Tip-Tough
69-156	Hammer Tip-Medium Hard
69-158	Hammer Tip-Hard
69-448	Hammer-Ball Pein, 1 Lb
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-193	Punch-Long Taper, 3/16"
70-235	Punch-Center, 3/8"
70-305	Chisel-Cold, 3/8"
70-309	Chisel-Cold, 1/2"
70-793	Feeler Gauge Set, 25 Blades
70-925	Inspection Mirror, Round
70-977	Scraper, 9-1/2"
56067	Hex Key Set, 9 pc, 5/64" to 1/4"
LP2	7" Locking Pliers, Curved Jaw

Metric Apprentice Tool Set 43-055

11-918	Hinge Handle, 3/8" Dr
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-927	Extension, 3/8" Dr, 12"
11-947	Universal Joint, 3/8" Dr
11-972	Ratchet, 3/8" Dr, 7-3/8"
16-651	Steel Case
16-653	Steel Tray for 16-651
28-406	Adjustable Wr-6"
28-408	Adjustable Wr-8"
38-106	Skt-3/8" Dr, 12-Pt, 6mm
38-107	Skt-3/8" Dr, 12-Pt, 7mm
38-108	Skt-3/8" Dr, 12-Pt, 8mm
38-109	Skt-3/8" Dr, 12-Pt, 9mm
38-110	Skt-3/8" Dr, 12-Pt, 10mm
38-111	Skt-3/8" Dr, 12-Pt, 11mm
38-112	Skt-3/8" Dr, 12-Pt, 12mm
38-113	Skt-3/8" Dr, 12-Pt, 13mm
38-114	Skt-3/8" Dr, 12-Pt, 14mm
38-115	Skt-3/8" Dr, 12-Pt, 15mm
38-116	Skt-3/8" Dr, 12-Pt, 16mm
38-117	Skt-3/8" Dr, 12-Pt, 17mm
38-118	Skt-3/8" Dr, 12-Pt, 18mm
38-119	Skt-3/8" Dr, 12-Pt, 19mm
38-120	Skt-3/8" Dr, 12-Pt, 20mm
38-121	Skt-3/8" Dr, 12-Pt, 21mm
38-122	Skt-3/8" Dr, 12-Pt, 22mm
38-308	Skt-3/8" Dr, 12-Pt, Deep, 8mm
38-309	Skt-3/8" Dr, 12-Pt, Deep, 9mm
38-310	Skt-3/8" Dr, 12-Pt, Deep, 10mm
38-311	Skt-3/8" Dr, 12-Pt, Deep, 11mm
38-312	Skt-3/8" Dr, 12-Pt, Deep, 12mm
38-313	Skt-3/8" Dr, 12-Pt, Deep, 13mm
38-314	Skt-3/8" Dr, 12-Pt, Deep, 14mm
38-315	Skt-3/8" Dr, 12-Pt, Deep, 15mm
38-316	Skt-3/8" Dr, 12-Pt, Deep, 16mm
38-317	Skt-3/8" Dr, 12-Pt, Deep, 17mm
38-318	Skt-3/8" Dr, 12-Pt, Deep, 18mm
38-319	Skt-3/8" Dr, 12-Pt, Deep, 19mm
38-707	Skt-3/8" Dr, Hex, 4mm
38-709	Skt-3/8" Dr, Hex, 5mm
38-711	Skt-3/8" Dr, Hex, 6mm
38-712	Skt-3/8" Dr, Hex, 7mm
38-713	Skt-3/8" Dr, Hex, 8mm
38-715	Skt-3/8" Dr, Hex, 10mm
52-206	Combo Wr-12-Pt, 6mm
52-207	Combo Wr-12-Pt, 7mm
52-208	Combo Wr-12-Pt, 8mm
52-209	Combo Wr-12-Pt, 9mm
52-210	Combo Wr-12-Pt, 10mm
52-211	Combo Wr-12-Pt, 11mm
52-212	Combo Wr-12-Pt, 12mm
52-213	Combo Wr-12-Pt, 13mm
52-214	Combo Wr-12-Pt, 14mm
52-215	Combo Wr-12-Pt, 15mm
52-216	Combo Wr-12-Pt, 16mm
52-217	Combo Wr-12-Pt, 17mm
52-218	Combo Wr-12-Pt, 18mm
52-219	Combo Wr-12-Pt, 19mm
52-220	Combo Wr-12-Pt, 20mm
52-221	Combo Wr-12-Pt, 21mm
52-222	Combo Wr-12-Pt, 22mm
66-157	Screwdriver-3/16 x 3, #1
66-160	Screwdriver-1/4 x 4, # 2
66-163	Screwdriver-5/16 x 6, #3
66-207	Screwdriver-1/4 x 4
66-216	Screwdriver-5/16 x 6
66-225	Screwdriver-3/8 x 8
67-113	Pliers-Diagonal Cutting, Heavy Duty 8"
67-305	Pliers-Chain Nose/Cutter, 6-5/8"
67-367	Pliers-Needle Nose, 6-5/8"
67-667	Pliers-Combo Slip Joint, 6-1/2"
67-779	Pliers-T & G, 10"
69-013	Hammer-Soft Face, 1-1/4 Lbs
69-153	Hammer Tip-Medium
69-156	Hammer Tip-Medium Hard
69-448	Hammer-Ball Pein, 1 Lb
70-103	Punch-Pin, 3/32"
70-105	Punch-Pin, 1/8"
70-193	Punch-Long Taper, 3/16"
70-235	Punch-Center, 3/8"
70-305	Chisel-Cold, 3/8"
70-309	Chisel-Cold, 1/2"
70-925	Inspection Mirror, Round
70-935	Magnetic Retrieving Tool
70-977	Scraper, 9-1/2"
56070	Hex Key Set, 7 pc, 1.5mm to 6mm
LP4	7" Locking Pliers, Straight Jaw

ARMSTRONG TOOLS
A Danaher Brand

Master Set Contents

Basic Metric Add-On Set 43-070

16-649	Steel Case
16-653	Steel Tray for 16-651
37-004	Skt-1/4" Dr, 6-Pt, 4mm
37-005	Skt-1/4" Dr, 6-Pt, 5mm
37-006	Skt-1/4" Dr, 6-Pt, 6mm
37-007	Skt-1/4" Dr, 6-Pt, 7mm
37-008	Skt-1/4" Dr, 6-Pt, 8mm
37-009	Skt-1/4" Dr, 6-Pt, 9mm
37-010	Skt-1/4" Dr, 6-Pt, 10mm
37-011	Skt-1/4" Dr, 6-Pt, 11mm
37-012	Skt-1/4" Dr, 6-Pt, 12mm
37-013	Skt-1/4" Dr, 6-Pt, 13mm
37-014	Skt-1/4" Dr, 6-Pt, 14mm
37-083	Skt-1/4" Dr, 6-Pt, 5.5mm
38-109	Skt-3/8" Dr, 12-Pt, 9mm
38-110	Skt-3/8" Dr, 12-Pt, 10mm
38-111	Skt-3/8" Dr, 12-Pt, 11mm
38-112	Skt-3/8" Dr, 12-Pt, 12mm
38-113	Skt-3/8" Dr, 12-Pt, 13mm
38-114	Skt-3/8" Dr, 12-Pt, 14mm
38-115	Skt-3/8" Dr, 12-Pt, 15mm
38-116	Skt-3/8" Dr, 12-Pt, 16mm
38-117	Skt-3/8" Dr, 12-Pt, 17mm
38-118	Skt-3/8" Dr, 12-Pt, 18mm
38-119	Skt-3/8" Dr, 12-Pt, 19mm
38-309	Skt-3/8" Dr, 12-Pt, Deep, 9mm
38-310	Skt-3/8" Dr, 12-Pt, Deep, 10mm
38-311	Skt-3/8" Dr, 12-Pt, Deep, 11mm
38-312	Skt-3/8" Dr, 12-Pt, Deep, 12mm
38-313	Skt-3/8" Dr, 12-Pt, Deep, 13mm
38-314	Skt-3/8" Dr, 12-Pt, Deep, 14mm
38-315	Skt-3/8" Dr, 12-Pt, Deep, 15mm
38-316	Skt-3/8" Dr, 12-Pt, Deep, 16mm
38-317	Skt-3/8" Dr, 12-Pt, Deep, 17mm
38-318	Skt-3/8" Dr, 12-Pt, Deep, 18mm
38-319	Skt-3/8" Dr, 12-Pt, Deep, 19mm
38-705	Skt-3/8" Dr, Hex, 3mm
38-707	Skt-3/8" Dr, Hex, 4mm
38-709	Skt-3/8" Dr, Hex, 5mm
38-711	Skt-3/8" Dr, Hex, 6mm
39-110	Skt-1/2" Dr, 12-Pt, 10mm
39-111	Skt-1/2" Dr, 12-Pt, 11mm
39-112	Skt-1/2" Dr, 12-Pt, 12mm
39-113	Skt-1/2" Dr, 12-Pt, 13mm
39-114	Skt-1/2" Dr, 12-Pt, 14mm
39-115	Skt-1/2" Dr, 12-Pt, 15mm
39-116	Skt-1/2" Dr, 12-Pt, 16mm
39-117	Skt-1/2" Dr, 12-Pt, 17mm
39-118	Skt-1/2" Dr, 12-Pt, 18mm
39-119	Skt-1/2" Dr, 12-Pt, 19mm
39-120	Skt-1/2" Dr, 12-Pt, 20mm
39-121	Skt-1/2" Dr, 12-Pt, 21mm
39-122	Skt-1/2" Dr, 12-Pt, 22mm
39-123	Skt-1/2" Dr, 12-Pt, 23mm
39-124	Skt-1/2" Dr, 12-Pt, 24mm
39-125	Skt-1/2" Dr, 12-Pt, 25mm
39-310	Skt-1/2" Dr, 12-Pt, Deep, 10mm
39-311	Skt-1/2" Dr, 12-Pt, Deep, 11mm
39-312	Skt-1/2" Dr, 12-Pt, Deep, 12mm
39-313	Skt-1/2" Dr, 12-Pt, Deep, 13mm
39-314	Skt-1/2" Dr, 12-Pt, Deep, 14mm
39-315	Skt-1/2" Dr, 12-Pt, Deep, 15mm
39-316	Skt-1/2" Dr, 12-Pt, Deep, 16mm
39-317	Skt-1/2" Dr, 12-Pt, Deep, 17mm
39-318	Skt-1/2" Dr, 12-Pt, Deep, 18mm
39-319	Skt-1/2" Dr, 12-Pt, Deep, 19mm
39-320	Skt-1/2" Dr, 12-Pt, Deep, 20mm
39-321	Skt-1/2" Dr, 12-Pt, Deep, 21mm
39-322	Skt-1/2" Dr, 12-Pt, Deep, 22mm
39-323	Skt-1/2" Dr, 12-Pt, Deep, 23mm
39-324	Skt-1/2" Dr, 12-Pt, Deep, 24mm
39-325	Skt-1/2" Dr, 12-Pt, Deep, 25mm
39-713	Skt-1/2" Dr, Hex, 8mm
39-715	Skt-1/2" Dr, Hex, 10mm
39-717	Skt-1/2" Dr, Hex, 12mm
39-719	Skt-1/2" Dr, Hex,14mm
52-004	Combo Wr-6-Pt Short, 4mm
52-005	Combo Wr-6-Pt Short, 5mm
52-006	Combo Wr-6-Pt Short, 6mm
52-007	Combo Wr-6-Pt Short, 7mm
52-008	Combo Wr-6-Pt Short, 8mm
52-083	Combo Wr-6-Pt Short, 5.5mm
52-109	Combo Wr-12-Pt Short, 9mm
52-210	Combo Wr-12-Pt, 10mm
52-211	Combo Wr-12-Pt, 11mm
52-212	Combo Wr-12-Pt, 12mm
52-213	Combo Wr-12-Pt, 13mm
52-214	Combo Wr-12-Pt, 14mm
52-215	Combo Wr-12-Pt, 15mm
52-216	Combo Wr-12-Pt, 16mm
52-217	Combo Wr-12-Pt, 17mm
52-218	Combo Wr-12-Pt, 18mm
52-219	Combo Wr-12-Pt, 19mm
52-220	Combo Wr-12-Pt, 20mm
52-221	Combo Wr-12-Pt, 21mm
52-222	Combo Wr-12-Pt, 22mm
52-223	Combo Wr-12-Pt, 23mm
52-224	Combo Wr-12-Pt, 24mm
52-225	Combo Wr-12-Pt, 25mm
56070	Hex Key Set, 7 pc, 1.5mm to 6mm

Intermediate Metric Add-On Set 43-075

16-649	Steel Case
16-653	Steel Tray for 16-651
37-004	Skt-1/4" Dr, 6-Pt, 4mm
37-005	Skt-1/4" Dr, 6-Pt, 5mm
37-006	Skt-1/4" Dr, 6-Pt, 6mm
37-007	Skt-1/4" Dr, 6-Pt, 7mm
37-008	Skt-1/4" Dr, 6-Pt, 8mm
37-009	Skt-1/4" Dr, 6-Pt, 9mm
37-010	Skt-1/4" Dr, 6-Pt, 10mm
37-011	Skt-1/4" Dr, 6-Pt, 11mm
37-012	Skt-1/4" Dr, 6-Pt, 12mm
37-013	Skt-1/4" Dr, 6-Pt, 13mm
37-014	Skt-1/4" Dr, 6-Pt, 14mm
37-083	Skt-1/4" Dr, 6-Pt, 5.5mm
37-204	Skt-1/4" Dr, 6-Pt, Deep, 4mm
37-205	Skt-1/4" Dr, 6-Pt, Deep, 5mm
37-206	Skt-1/4" Dr, 6-Pt, Deep, 6mm
37-207	Skt-1/4" Dr, 6-Pt, Deep, 7mm
37-208	Skt-1/4" Dr, 6-Pt, Deep, 8mm
37-209	Skt-1/4" Dr, 6-Pt, Deep, 9mm
37-210	Skt-1/4" Dr, 6-Pt, Deep, 10mm
37-211	Skt-1/4" Dr, 6-Pt, Deep, 11mm
37-212	Skt-1/4" Dr, 6-Pt, Deep, 12mm
37-213	Skt-1/4" Dr, 6-Pt, Deep, 13mm
37-214	Skt-1/4" Dr, 6-Pt, Deep, 14mm
37-283	Skt-1/4" Dr, 6-Pt, Deep, 5.5mm
37-703	Skt-1/4" Dr, Hex, 2mm
37-704	Skt-1/4" Dr, Hex, 2.5mm
38-006	Skt-3/8" Dr, 6-Pt, 6mm
38-007	Skt-3/8" Dr, 6-Pt, 7mm
38-008	Skt-3/8" Dr, 6-Pt, 8mm
38-109	Skt-3/8" Dr, 12-Pt, 9mm
38-110	Skt-3/8" Dr, 12-Pt, 10mm
38-111	Skt-3/8" Dr, 12-Pt, 11mm
38-112	Skt-3/8" Dr, 12-Pt, 12mm
38-113	Skt-3/8" Dr, 12-Pt, 13mm
38-114	Skt-3/8" Dr, 12-Pt, 14mm
38-115	Skt-3/8" Dr, 12-Pt, 15mm
38-116	Skt-3/8" Dr, 12-Pt, 16mm
38-117	Skt-3/8" Dr, 12-Pt, 17mm
38-118	Skt-3/8" Dr, 12-Pt, 18mm
38-119	Skt-3/8" Dr, 12-Pt, 19mm
38-120	Skt-3/8" Dr, 12-Pt, 20mm
38-121	Skt-3/8" Dr, 12-Pt, 21mm
38-122	Skt-3/8" Dr, 12-Pt, 22mm
38-309	Skt-3/8" Dr, 12-Pt, Deep, 9mm
38-310	Skt-3/8" Dr, 12-Pt, Deep, 10mm
38-311	Skt-3/8" Dr, 12-Pt, Deep, 11mm
38-312	Skt-3/8" Dr, 12-Pt, Deep, 12mm
38-313	Skt-3/8" Dr, 12-Pt, Deep, 13mm
38-314	Skt-3/8" Dr, 12-Pt, Deep, 14mm
38-315	Skt-3/8" Dr, 12-Pt, Deep, 15mm
38-316	Skt-3/8" Dr, 12-Pt, Deep, 16mm
38-317	Skt-3/8" Dr, 12-Pt, Deep, 17mm
38-318	Skt-3/8" Dr, 12-Pt, Deep, 18mm
38-319	Skt-3/8" Dr, 12-Pt, Deep, 19mm
38-320	Skt-3/8" Dr, 12-Pt, Deep, 20mm
38-321	Skt-3/8" Dr, 12-Pt, Deep, 21mm
38-322	Skt-3/8" Dr, 12-Pt, Deep, 22mm
38-705	Skt-3/8" Dr, Hex, 3mm
38-707	Skt-3/8" Dr, Hex, 4mm
38-709	Skt-3/8" Dr, Hex, 5mm
38-711	Skt-3/8" Dr, Hex, 6mm
39-110	Skt-1/2" Dr, 12-Pt, 10mm
39-111	Skt-1/2" Dr, 12-Pt, 11mm
39-112	Skt-1/2" Dr, 12-Pt, 12mm
39-113	Skt-1/2" Dr, 12-Pt, 13mm
39-114	Skt-1/2" Dr, 12-Pt, 14mm
39-115	Skt-1/2" Dr, 12-Pt, 15mm
39-116	Skt-1/2" Dr, 12-Pt, 16mm
39-117	Skt-1/2" Dr, 12-Pt, 17mm
39-118	Skt-1/2" Dr, 12-Pt, 18mm
39-119	Skt-1/2" Dr, 12-Pt, 19mm
39-120	Skt-1/2" Dr, 12-Pt, 20mm
39-121	Skt-1/2" Dr, 12-Pt, 21mm
39-122	Skt-1/2" Dr, 12-Pt, 22mm
39-123	Skt-1/2" Dr, 12-Pt, 23mm
39-124	Skt-1/2" Dr, 12-Pt, 24mm
39-125	Skt-1/2" Dr, 12-Pt, 25mm
39-126	Skt-1/2" Dr, 12-Pt, 26mm
39-127	Skt-1/2" Dr, 12-Pt, 27mm
39-130	Skt-1/2" Dr, 12-Pt, 30mm
39-132	Skt-1/2" Dr, 12-Pt, 32mm
39-310	Skt-1/2" Dr, 12-Pt, Deep, 10mm
39-311	Skt-1/2" Dr, 12-Pt, Deep, 11mm
39-312	Skt-1/2" Dr, 12-Pt, Deep, 12mm
39-313	Skt-1/2" Dr, 12-Pt, Deep, 13mm
39-314	Skt-1/2" Dr, 12-Pt, Deep, 14mm
39-315	Skt-1/2" Dr, 12-Pt, Deep, 15mm
39-316	Skt-1/2" Dr, 12-Pt, Deep, 16mm
39-317	Skt-1/2" Dr, 12-Pt, Deep, 17mm
39-318	Skt-1/2" Dr, 12-Pt, Deep, 18mm
39-319	Skt-1/2" Dr, 12-Pt, Deep, 19mm
39-320	Skt-1/2" Dr, 12-Pt, Deep, 20mm
39-321	Skt-1/2" Dr, 12-Pt, Deep, 21mm
39-322	Skt-1/2" Dr, 12-Pt, Deep, 22mm
39-323	Skt-1/2" Dr, 12-Pt, Deep, 23mm
39-324	Skt-1/2" Dr, 12-Pt, Deep, 24mm
39-325	Skt-1/2" Dr, 12-Pt, Deep, 25mm
39-326	Skt-1/2" Dr, 12-Pt, Deep, 26mm
39-327	Skt-1/2" Dr, 12-Pt, Deep, 27mm
39-330	Skt-1/2" Dr, 12-Pt, Deep, 30mm
39-332	Skt-1/2" Dr, 12-Pt, Deep, 32mm
39-713	Skt-1/2" Dr, Hex, 8mm
39-715	Skt-1/2" Dr, Hex, 10mm
39-717	Skt-1/2" Dr, Hex, 12mm
39-719	Skt-1/2" Dr, Hex,14mm
39-722	Skt-1/2" Dr, Hex,17mm
52-004	Combo Wr-6-Pt Short, 4mm
52-005	Combo Wr-6-Pt Short, 5mm
52-006	Combo Wr-6-Pt Short, 6mm
52-007	Combo Wr-6-Pt Short, 7mm
52-008	Combo Wr-6-Pt Short, 8mm
52-083	Combo Wr-6-Pt Short, 5.5mm
52-109	Combo Wr-12-Pt Short, 9mm
52-210	Combo Wr-12-Pt, 10mm
52-211	Combo Wr-12-Pt, 11mm
52-212	Combo Wr-12-Pt, 12mm
52-213	Combo Wr-12-Pt, 13mm
52-214	Combo Wr-12-Pt, 14mm
52-215	Combo Wr-12-Pt, 15mm
52-216	Combo Wr-12-Pt, 16mm
52-217	Combo Wr-12-Pt, 17mm
52-218	Combo Wr-12-Pt, 18mm
52-219	Combo Wr-12-Pt, 19mm
52-220	Combo Wr-12-Pt, 20mm
52-221	Combo Wr-12-Pt, 21mm
52-222	Combo Wr-12-Pt, 22mm
52-223	Combo Wr-12-Pt, 23mm
52-224	Combo Wr-12-Pt, 24mm
52-225	Combo Wr-12-Pt, 25mm
52-226	Combo Wr-12-Pt, 26mm
52-227	Combo Wr-12-Pt, 27mm
52-230	Combo Wr-12-Pt, 30mm
52-232	Combo Wr-12-Pt, 32mm
56070	Hex Key Set, 7 pc, 1.5mm to 6mm

Light Duty Nut Turning Set 16-065

10-006	Skt-1/4" Dr, 6-Pt, 3/16"
10-007	Skt-1/4" Dr, 6-Pt, 7/32"
10-008	Skt-1/4" Dr, 6-Pt, 1/4"
10-009	Skt-1/4" Dr, 6-Pt, 9/32"
10-010	Skt-1/4" Dr, 6-Pt, 5/16"
10-011	Skt-1/4" Dr, 6-Pt, 11/32"
10-943	Plastic Handle Driver, 1/4" Dr
11-112	Skt-3/8" Dr, 12-Pt, 5/16"
11-114	Skt-3/8" Dr, 12-Pt, 7/16"
11-116	Skt-3/8" Dr, 12-Pt, 1/2"
11-118	Skt-3/8" Dr, 12-Pt, 9/16"
11-120	Skt-3/8" Dr, 12-Pt, 5/8"
11-122	Skt-3/8" Dr, 12-Pt, 11/16"
11-124	Skt-3/8" Dr, 12-Pt, 3/4"
11-501	Skt-3/8" Dr, Spark Plug, 5/8"
11-922	Extension, 3/8" Dr, 3"
11-923	Extension, 3/8" Dr, 6"
11-947	Universal Joint, 3/8" Dr
11-951	Adapter, 3/8"F to 1/4"M
11-972	Ratchet, 3/8" Dr, 7-3/8"
16-649	Steel Case

Master Hex Driver Socket Set 16-080

10-705	Skt-1/4" Dr, Hex, 5/64"
10-706	Skt-1/4" Dr, Hex, 3/32"
10-707	Skt-1/4" Dr, Hex, 7/64"
10-708	Skt-1/4" Dr, Hex, 1/8"
10-709	Skt-1/4" Dr, Hex, 9/64"
10-943	Plastic Handle Driver, 1/4" Dr
11-710	Skt-3/8" Dr, Hex, 5/32"
11-711	Skt-3/8" Dr, Hex, 3/16"
11-712	Skt-3/8" Dr, Hex, 7/32"
11-713	Skt-3/8" Dr, Hex, 1/4"
11-714	Skt-3/8" Dr, Hex, 5/16"
11-923	Extension, 3/8" Dr, 6"
11-951	Adapter, 3/8"F to 1/4"M
11-972	Ratchet, 3/8" Dr, 7-3/8"
12-715	Skt-1/2" Dr, Hex, 3/8"
12-716	Skt-1/2" Dr, Hex, 7/16"
12-717	Skt-1/2" Dr, Hex, 1/2"
12-718	Skt-1/2" Dr, Hex, 9/16"
12-719	Skt-1/2" Dr, Hex, 5/8"
12-917	Hinge Handle, 1/2" Dr, 12"
12-923	Extension, 1/2" Dr, 5"
12-951	Adapter, 1/2"F to 3/8"M
12-972	Ratchet, 1/2" Dr, 10-1/2"
16-621	Steel Case

Basic Hex Driver Socket Set 16-083

11-708	Skt-3/8" Dr, Hex, 1/8"
11-710	Skt-3/8" Dr, Hex, 5/32"
11-711	Skt-3/8" Dr, Hex, 3/16"
11-712	Skt-3/8" Dr, Hex, 7/32"
11-713	Skt-3/8" Dr, Hex, 1/4"
11-714	Skt-3/8" Dr, Hex, 5/16"
11-715	Skt-3/8" Dr, Hex, 3/8"
12-717	Skt-1/2" Dr, Hex, 1/2"
12-718	Skt-1/2" Dr, Hex, 9/16"
12-719	Skt-1/2" Dr, Hex, 5/8"
16-831	Socket Bar, 9"
16-843	Clip, 3/8" Dr
16-845	Clip, 1/2" Dr

Metric Basic Hex Driver Socket Set 43-083

16-831	Socket Bar, 9"
16-843	Clip, 3/8" Dr
16-845	Clip, 1/2" Dr
38-705	Skt-3/8" Dr, Hex, 3mm
38-707	Skt-3/8" Dr, Hex, 4mm
38-709	Skt-3/8" Dr, Hex, 5mm
38-711	Skt-3/8" Dr, Hex, 6mm
38-713	Skt-3/8" Dr, Hex, 8mm
38-715	Skt-3/8" Dr, Hex, 10mm
39-717	Skt-1/2" Dr, Hex, 12mm
39-719	Skt-1/2" Dr, Hex,14mm
39-722	Skt-1/2" Dr, Hex,17mm

Standard Wrench Sizing Charts

NOMINAL OPENING SIZES OF ARMSTRONG WRENCHES OR SOCKETS IN INCHES TO FIT STANDARD BOLT HEADS, NUTS AND SCREW HEADS

WRENCH OR SOCKET SIZE		BOLTS - SCREWS								NUTS						
ACROSS FLATS	DECIMAL EQUIV.	SQUARE AND HEX BOLTS, CAP SCREWS & SQUARE & HEX LAG SCREWS	HEAVY HEX BOLTS & SCREWS	HEX FLANGE SCREWS	TAPPING SCREWS	HEX WASHER HEAD TAPPING SCREWS	HEX HEAD MACHINE SCREWS	HEX WASHER HEAD MACHINE SCREWS	SQUARE HEAD SET SCREWS	SQUARE NUTS & HEAVY SQUARE NUTS	TRACK, HEAVY HEX & SQUARE, FLAT AND JAM NUTS	SQUARE MACHINE SCREW NUT	HEX NUTS & FLAT CSTLE. SLOTTED AND HAM HEX NUT	HEX FLANGE NUTS	TRACK BOLT NUTS	SIZE HEX LOCK NUTS
1/8	0.1250	–	–	–	#1&2	#2&3	#1&2	#1&2	–	–	–	–	–	–	–	–
5/332	0.1562	–	–	–	–	–	–	–	–	–	–	#0&1	–	–	–	–
3/16	0.1875	–	–	–	#3,4,5	#3,4,5	#3,4,5	#3,4,5	#10	–	–	#2&3	–	–	–	–
1/4	0.2500	–	–	–	#6,7,8	#6,7,8	#6&8	#6&8	1/4	–	–	#4	–	–	–	#4
9/32	0.2812	#10	–	–	–	–	–	–	–	–	–	–	–	–	–	–
5/16	0.3125	–	–	–	#10&12	#10&12	#10&12	#10&12	5/16	–	–	#5&6	–	#6	–	#6
11/32	0.3438	–	–	–	–	–	–	–	–	–	–	#8	–	#8	–	#8
3/8	0.3750	1/4	–	1/4	1/4	1/4	1/4	1/4	3/8	–	–	#10	–	#10	–	#10
7/16	0.4375	1/4	–	–	–	–	–	7/16	1/4	–	–	#12&14	1/4	#12&14	–	#12&14
1/2	0.5000	5/16	–	5/16	5/16	5/16	5/16	5/16	1/2	1/4	1/4	–	5/16	5/16	–	5/16
9/16	0.5625	3/8	–	3/8	3/8	3/8	3/8	3/8	9/16	5/16	5/16	5/16	3/8	3/8	–	3/8
5/8	0.6250	7/16	–	7/16	–	–	–	–	5/8	3/8	–	3/8	–	–	–	–
11/16	0.6875	–	–	–	–	–	–	–	–	3/8	3/8	–	7/16	7/16	–	7/16
3/4	0.7500	1/2	–	1/2	–	–	–	–	3/4	7/16	7/16	–	1/2	1/2	–	1/2
13/16	0.8125	9/16	–	9/16	–	–	–	–	–	1/2	–	–	–	–	–	–
7/8	0.8750	–	1/2	–	–	–	–	–	7/8	1/2	1/2	–	9/16	9/16	–	9/16
15/16	0.9375	3/8	–	5/8	–	–	–	–	–	–	9/16	–	5/8	5/8	–	5/8
1	1.0000	–	–	–	–	–	–	–	1	5/8	–	–	–	–	–	–
1 1/16	1.0625	–	5/8	–	–	–	–	–	–	5/8	5/8	–	–	–	–	–
1 1/8	1.1250	3/4	–	3/4	–	–	–	–	1 1/8	3/4	–	–	3/4	3/4	–	3/4
1 1/4	1.2500	–	3/4	–	–	–	–	–	1 1/4	3/4	3/4	–	–	–	3/4&13/16	–
1 5/16	1.3125	7/8	–	–	–	–	–	–	–	7/8	–	–	7/8	–	–	7/8
1 3/8	1.3750	–	–	–	–	–	–	–	1 3/8	–	–	–	–	–	–	–
1 7/16	1.4375	–	7/8	–	–	–	–	–	–	7/8	7/8	–	–	–	7/8	–
1 1/2	1.5000	1	–	–	–	–	–	–	1 1/2	1	–	–	1	–	15/16&1	1
1 5/8	1.6250	–	1	–	–	–	–	–	–	1	1	–	–	–	1&1 1/16	–
1 11/16	1.6875	1 1/8	–	–	–	–	–	–	–	1 1/8	–	–	1 1/2	–	1 1/8	1 1/8
1 13/16	1.8125	–	1 1/8	–	–	–	–	–	–	1 1/8	1 1/8	–	–	–	1 1/8	–
1 7/8	1.8750	1 1/4	–	–	–	–	–	–	–	1 1/4	-	–	1 1/4	–	–	1 1/4
2	2.0000	–	1 1/4	–	–	–	–	–	–	1 1/4	1 1/4	–	–	–	–	–
2 1/16	2.0625	1 3/8	–	–	–	–	–	–	–	1 3/8	–	–	1 3/8	–	–	1 3/8
2 3/16	2.1875	–	1 3/8	–	–	–	–	–	–	1 3/8	1 3/8	–	–	–	–	1 1/2
2 1/4	2.2500	1 1/2	–	–	–	–	–	–	–	1 1/2	–	–	1 1/2	–	–	–
2 3/8	2.3750	–	1 1/2	–	–	–	–	–	–	1 1/2	1 1/2	–	–	–	–	–
2 7/16	2.4375	1 5/8	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2 9/16	2.5625	–	1 5/8	–	–	–	–	–	–	–	1 5/8	–	–	–	–	–
2 5/8	2.6250	1 3/4	–	–	–	–	–	–	–	–	–	–	–	–	–	–
2 3/4	2.7500	–	1 3/4	–	–	–	–	–	–	–	1 3/4	–	–	–	–	–
2 13/16	2.1825	1 7/8	-	–	–	–	–	–	–	–	-	–	–	–	–	–
2 15/16	2.9375	—	1 7/8	–	–	–	–	–	–	–	1 7/8	–	–	–	–	–
3	3.0000	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–
3 1/8	3.1250	–	2	–	–	–	–	–	–	–	2	–	–	–	–	–
3 3/8	3.3750	2 1/4	–	–	–	–	–	–	–	–	–	–	–	–	–	–
3 1/2	3.5000	–	2 1/4	–	–	–	–	–	–	–	2 1/4	–	–	–	–	–
3 3/4	3.7500	2 1/2	–	–	–	–	–	–	–	–	–	–	–	–	–	–
3 7/8	3.8750	–	2 1/2	–	–	–	–	–	–	–	2 1/2	–	–	–	–	–
4 1/8	4.1250	2 3/4	–	–	–	–	–	–	–	–	–	–	–	–	–	–
4 1/4	4.2500	–	2 3/4	–	–	–	–	–	–	–	2 3/4	–	–	–	–	–
4 1/2	4.5000	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–
4 5/8	4.6250	–	3	–	–	–	–	–	–	–	3	–	–	–	–	–
4 7/8	4.8750	3 1/4	–	–	–	–	–	–	–	–	–	–	–	–	–	–
5	5.0000	–	3 1/4	–	–	–	–	–	–	–	3 1/4	–	–	–	–	–
5 1/4	5.2500	3 1/2	–	–	–	–	–	–	–	–	3 1/2	–	–	–	–	–
5 3/8	5.3750	–	3 1/2	–	–	–	–	–	–	–	3 1/2	–	–	–	–	–
5 5/8	5.6250	3 3/4	–	–	–	–	–	–	–	–	3 3/4	–	–	–	–	–
5 3/4	5.7500	–	3 3/4	–	–	–	–	–	–	–	3 3/4	–	–	–	–	–
6	6.0000	4	–	–	–	–	–	–	–	–	4	–	–	–	–	–
6 1/8	6.1250	–	4	–	–	–	–	–	–	–	4	–	–	–	–	–
6 1/2	6.5000	–	4 1/4	–	–	–	–	–	–	–	–	–	–	–	–	–
6 7/8	6.8750	–	4 1/2	–	–	–	–	–	–	–	–	–	–	–	–	–
7 1/4	7.2500	–	4 3/4	–	–	–	–	–	–	–	–	–	–	–	–	–
7 5/8	7.6250	–	5	–	–	–	–	–	–	–	–	–	–	–	–	–
8	8.0000	–	5 1/4	–	–	–	–	–	–	–	–	–	–	–	–	–
8 3/8	8.3750	–	5 1/2	–	–	–	–	–	–	–	–	–	–	–	–	–
8 3/4	8.7500	–	5 3/4	–	–	–	–	–	–	–	–	–	–	–	–	–
9 1/8	9.1250	–	6	–	–	–	–	–	–	–	–	–	–	–	–	–

Metric Wrench Sizing Chart

Nominal opening sizes of Armstrong wrenches or sockets in millimeters to fit standard bolt heads, nuts and screw heads.

Locate thread diameter of bolt, nut or screw in extreme left or right column. Then move across to box which has proper identification of bolt, nut or screw at top of vertical column. The size listed is the nominal opening size in millimeters of the Armstrong wrenches and sockets that will fit.

American Standards Association — ASA B18.2, Appendix 1

	BOLTS			NUTS				
WRENCH OR SOCKET SIZE ACROSS FLATS	HEX BOLTS	HEAVY HEX BOLTS	HEAVY HEX STRUCTURAL BOLTS	HEX NUTS STYLE 1	HEX NUTS STYLE 2	SLOTTED AND HAM HEX NUTS	HEAVY HEX NUTS	WRENCH OR SOCKET SIZE ACROSS FLATS
	Use wrench or socket size shown below			Use wrench or socket size shown below				
3.20	—	—	—	M1.6 x 0.35	—	—	—	3.20
4.00	—	—	—	M2 x 0/4	—	—	—	4.00
5.00	—	—	—	M2.5 x 0.45	—	—	—	5.00
5.50	—	—	—	M3 x 0.5	M3 X 0.5	—	—	5.50
6.00	—	—	—	M3.5 x 0.6	M3.5 x 0.6	—	—	6.00
7.00	—	—	—	M4 x 0.7	M4 x 0.7	—	—	7.00
8.00	M5 x 0.8	—	—	M5 x 0. 8	M5 x 0. 8	M5 x 0. 8	—	8.00
10.00	M6 x 1	—	—	M6 x 1	M6 x 1	M6 x 1	—	10.00
13.00	M8 x 1.25	—	—	M8 x 1.25	M8 x 1.25	M8 x 1.25	—	13.00
15.00	M10 x 1.5	—	—	M10 x 1.5	M10 x 1.5	M10 x 1.5	—	1500
16.00	M10 x 1.5	—	—	M10 x 1.5	M10 x 1.5	M10 x 1.5	—	1600
18.00	M12 x 1.75	—	—	M12 x 1.75	M12 x 1.75	M12 x 1.75	—	1800
21.00	M14 x 2	M12 x 1.75	—	M14 x 2	M14 x 2	M14 x 2	M12 x 1.75	21.00
24.00	M16 x 2	M14 x 2	—	M16 x 2	M16 x 2	M16 x 2	M14 x 2	24.00
27.00	—	M16 x 2	M16 x 2	—	—	—	M16 x 2	27.00
30.00	M20 x 2.5	—	—	M20 x 2.5	M20 x 2.5	M20 x 2.5	—	30.00
34.00	—	M20 x 2.5	M20 x 2.5	—	—	—	M20 x 2.5	34.00
36.00	M24 x 3	—	M22 x 2.5	M24 x 3	M24 x 3	M24 x 3	M22 x 2.5	36.00
41.00	—	M24 x 3	M24 x 3	—	—	—	M24 x 3	41.00
46.00	M30 x 3.5	—	M27 x 3	M30 x 3.5	M30 x 3.5	M30 x 3.5	M27 x 3	46.00
50.00	—	M30 x 3.5	M30 x 3.5	—	—	—	M30 x 3.5	50.00
55.00	M36 x 4	—	—	M36 x 4	M36 x 4	M36 x 4	—	55.00
60.00	—	M36 x 4	M36 x 4	—	M36 x 4	60.00	—	—
65.00	M42 x 4.5	—	—	—	—	—	—	65.00
70.00	—	—	—	—	—	—	M42 x 4.5	70.00
75.00	M48 x 5	—	—	—	—	—	—	75.00
80.00	—	—	—	—	—	—	M48 x 5	80.00
85.00	M56 x 5.5	—	—	—	—	—	—	85.00
90.00	—	—	—	—	—	—	M56 x 5.5	90.00
95.00	M64 x 6	—	—	—	—	—	-	95.00
100.00	—	—	—	—	—	—	M64 x 6	100.00
105.00	M72 x 6	—	—	—	—	—	-	105.00
110.00	—	—	—	—	—	—	M72 x 6	110.00
115.00	M80 x 6	—	—	—	—	—	-	115.00
120.00	—	—	—	—	—	—	M80 x 6	120.00
130.00	M90 x 6	—	—	—	—	—	-	130.00
135.00		—	—	—	—	—	M90 x 6	135.00
145.00	M100 x 6	—	—	—	—	—	-	145.00
150.00	-	—	—	—	—	—	M100 x 6	150.00

ARMSTRONG TOOLS
A Danaher Brand

A

Actuator Pins 249
Adapter
  Hand
    1/4" Drive....29
    3/8" Drive....39
    1/2" Drive....49
    3/4" Drive....53
    1" Drive 55
  Impact
    1/2" Drive 118-119
    3/4" Drive....122
    1" Drive 125
    1-1/2" Drive 126
    No. 5 Spline Drive 106
  Locking....28, 38
  Power
    3/8" Drive....112
    1/2" Drive....118
  Ratchet 38, 48
Allen Hex Keys 290-306
Adjustable Wrenches 163, 174, 180
Angle Wrenches 158-160

B

Ball Plus Hex Keys 298-300
Bars
  Boring 269-270
  Pinch....231
  Pry 231
  Socket....105
Battery Service Tools 212, 239
Bearing Separators....245
Bent Tail Lathe Dog....285-286
Bits
  Screwdriver Socket....27, 35, 45
  Tool 274-281
Blades
  Cut-Off....274-275
  Hacksaw 238
Bolts
  Eye 284
  T-Slot 262
Boring
  Bars....269-270
  Tool Holders 269
Boring Tools 268-270
Box Wrenches 151-157, 173-174
Boxes, Tool 100-105
Breaker Bar 28, 37, 47-48, 52-53, 54

C

C-Clamps
  "400" Series 258-259
  Deep Throat....258-259
  General Service Pattern 257
  Heavy Duty 256
  High Visibility 259
  Spatter Resisting 257, 258
  Square Throat....257
  Tool Makers' 259
  Welding 257, 258
Cabinets & Chests, Tool 101-105
Carbide
  Tipped Cutters....279-281
  Tool Holders 266-267
Cases, Tool....100
Chain Pipe Tong 251-252
Chain Pipe Vise 253
Chests, Tool 101-105
Chisels
  Cape 230
  Cold 230
  Diamond Point 230
  Half Round 230
  Sets....232
Clamps
  C 256-259
  Finger 260
  Goose Neck....261
  Plain 261
  Screw Heel 261
  Strap....260
  T-Slot 260
  U 261
  Universal Adjustable 260
Clicker Torque Wrenches 184-185
Clips, Socket 105
Collets 249
Combination Wrenches 130-138, 168-169
Computorq II 187-188
Crank Handles 285
Crowfoot Wrenches 36, 46
Cutters
  Carbide Tipped 279-281
  Tube 253
Cutting Off, Lathe Tools 267-268

D

Deadblow Hammer 224, 227
Deep Throat C-Clamps 258-259
Dogs, Lathe 285-286
Drift, Drill 287
Drill, Ratchet 287
Drilling Post....287
Drive Tools and Accessories
  Hand
    1/4" Drive 28-29
    3/8" Drive 37-39
    1/2" Drive 47-49
    3/4" Drive 52-53
    1" Drive 54-55
    1-1/2" Drive 55
  Impact
    1/2" Drive....118
    3/4" Drive 122-123
    1" Drive 125
    1-1/2" Drive 126-127
    2-1/2" Drive 127
    No. 5 Spline Drive 106
  Power
    1/4" Drive....108
    3/8" Drive....112
Drivers 201-203
  Nut....192-201
  Screw ....

E

Electronic Torque Testers....188
Ergonomic Ratchet....37
Extensions
  Hand
    1/4" Drive....28
    3/8" Drive....38
    1/2" Drive....48
    3/4" Drive....53
    1" Drive 54
    Flex 28, 38
  Impact
    1/2" Drive....118
    3/4" Drive....122
    1" Drive 125
    1-1/2"....126
    No. 5 Spline Drive 106
  Power
    1/4" Drive....108
    3/8" Drive 112
Extractors, Screw....239
Eye Bolts 284

F

Feeler Gauges 235-237
Fittings, Tool Post 286
Flange Jacks....252
Flare Nut Wrenches 161-163
Flaring Tool, Tube....253
Flex Extensions 28, 38
Flex Head Ratchet 37, 47
Flip Socket 116
Fold-Ups, Hex Keys 290-292

G

Gauges, Feeler 235-237
Glasses, Safety....228

H

Hacksaw Blades 238
Hacksaws 237-238
Hammers
  Ball Pein 225-226
  Brass....227
  Claw 225
  Copper 226
  Cross Pein 227
  Dead Blow 224, 227
  Hand Drilling....227
  Power Drive 227
  Rubber 226
  Sledge, Double Face 228
  Soft Face....223
Hammer Tips 224
Handles
  Crank 285
  Hammer....225-226
  Hinge....28, 37, 47-48, 52, 54
  Sliding T....28, 38, 48, 53, 55
Heavy Duty C-Clamps 256
Hex Keys, Allen....290-306
Hex Plus, Allen....297

Hexdriver Sockets
1/4" Drive....26
3/8" Drive....34-35
1/2" Drive....44-45
3/4" Drive Power....121
High-Vis Fold-Ups, Hex Keys....291-292
High-Visibility C-Clamps....259
Hinge Handle
1/4" Drive....28
3/8" Drive....37
1/2" Drive....47-48
3/4" Drive....52-53
1" Drive....54
Hinge Handle Repair Kits
1/4" Drive....29
3/8" Drive....39
1/2" Drive....49
3/4" Drive....53

I

Impact Extensions....106, 118, 122, 125, 126
Impact Sockets
1/2" Drive....112-115
3/4" Drive....119-121
1" Drive....123-124
1-1/2" Drive....126
2-1/2" Drive....127
No. 5 Spline Drive....106
Sets....110-112, 116-118, 121-122
Inspection Mirrors....238

J

Jacks
Flange....252
Planer....263
Vertical....263

K

Knife, Utility....222
Knurling Tool Holders....271
Knurls....272-273

L

Lathe Dogs....285-286
Lifting Eye....284
Lineman's Ratchet....47
Locking Drive Adapter....28, 38

M

Mallet, Rubber....226
Master Sets....6-21
Measuring Tapes....222-223
Metric
Feeler Gauges....235-237
Hex Key Sets....290-305
Master Sets....9, 12, 17-20
Measuring Tapes....223
Metric (continued)
Nut Drivers....202-203
Sets, Chrome Sockets and Drive Tools
1/4" Drive....52-61, 63, 65
3/8" Drive....66, 68-71, 73-74, 76, 79
1/2" Drive....80-84, 86-89, 91
3/4" Drive....92-94, 96
Sets, Impact....117, 118, 122
Sets, Power....111, 112
Sockets
Hand, Chrome....24-25, 30-33, 40-41, 43, 50-51
Hexdriver....26, 34-35, 44-45
Impact....113-114, 119-121
Open End Crowfoot....36
Power....108-109
Wrench
Box....152, 154-157, 173-174
Angle, Miniature....160
Black Finish....168, 174, 177-178
Combination, Mirror-Finish Chrome....130-132, 134-136
Combination, Satin Finish....137
Industrial....168-169, 174, 177-178
Open End....149, 160
Ratcheting Box....155, 157, 174
Ratcheting Flare Nut....163
Sets....138-147, 150-157, 160, 163, 174
Striking Wrenches....177-178
Torque....184-189
Micrometer Adjustable Torque Wrenches....184-185
Mirrors, Inspection....238
Multipliers, Torque....189

N

Nut Driver Sets....202-203
Nut Drivers....201-203
Nut Starters....203
Nuts
Hex....263
T-Slot....263

O

O-Ring
3/4" Drive....122
1" Drive....125
1-1/2" Drive....126
2-1/2" Drive....127
Open End Wrenches....149, 158, 160, 171-172

P

Parts, Replacement....309
Phillips
Bit Sockets....27, 35, 45
Screwdrivers....192, 195, 197
Pinch Bars....231
Pins
Knurl....273
Pins (continued)
Retainer, Impact Socket....122, 125, 126, 127
Pipe Tong, Chain....251-252
Pipe Vise, Chain....253
Pipe Wrench....250
Plastic Handle Drivers....29, 38
Pliers
Battery....212
Cable Cutter....213
Chain Nose....207-208
Cutting, Diagonal....206
Duckbill....209
Electrician's....213-214
End Cutting Nippers....209
Flat Nose....209
Heavy Duty Cutting, Diagonal....206-207
Hose Clamp....211
Ignition....211
Lineman's....206
Lock Ring....209-210
Needle Nose....208-209
Retaining Ring....214-218
Slip Joint....210-211
Snips....219
Tongue & Groove....211-212
Wire Stripper....213
Wiretwister....218-219
Posts, Lathe Tool....286
Pouch,Tool....164-165
Power Sockets
1/4" Drive....107
3/8" Drive....108-110
1/2" Drive....113, 115, 116
Hexdriver....121
Sets....110-112
Universal....110, 115-116
Powerdrive Dead Blow Hammer....227
Pry Bars....231, 234
Pullers
10 Ton Set....242
2-Arm....244
2/3-Arm Convertible....243
2/3-Arm Sets....243-244
Actuators Pins....249
Bearing Separators....245
Blind Hole....250
Collets....249
Conveyor Bearing....250
Cross-Arm....245
General Purpose Set....242
Harmonic Balancer....247
Heavy Duty Set....243
Internal....247
Pilot Bearing....248
Posilock....244
Press....245
Reversible....246
Reversible Sets....246
Service Kit....247
Shaft Protectors....249
Slide Hammer....248
Utility....242
Punch
Aligning....229
Center....229
Long Taper....229

Punch (continued)
Pin 228
Prick 229
Sets 231-232
Solid 229
Punch and Chisel Sets 233-234

R

Ratchet
Adapter
3/8" Drive....38
1/2" Drive....48
Drill....287
Ergonomic Handle 37
Flex Head
3/8" Drive....37
1/2" Drive....47
Lineman's, 1/2" Drive 47
Pear Head
1/4" Drive....28
3/8" Drive....37
1/2" Drive....47
3/4" Drive....52
1" Drive 54
1-1/2" Drive 55
Repair Kits 29, 39, 49, 53, 55
Round Head
3/8" Drive....37
1/2" Drive....47
Spinner
1/4" Drive....29
3/8" Drive....39
1/2" Drive....48
Spud, 1/2" Drive 47
Wrenches 28, 37, 47, 52, 54, 55
Ratchet Drill 287
Ratchet Repair Kits
1/4" Drive 28
3/8" Drive 39
1/2" Drive 47
3/4" Drive 53
1" Drive....55
1-1/2" Drive....55
Ratcheting Box Wrenches....155, 157, 173-174
Ratcheting Flare Nut Wrenches 162-163
Repair Kits
Hinge Handle 29, 39, 49, 53
Ratchet....28, 39, 47, 53, 55
Replacement Parts....309
Ret Ring
3/4" Drive 123
1" Drive....125 ,127
1-1/2" Drive....127
Retaining Ring Pliers 214-218
Retrieving Tools
Flexible Spring Tool 239
Magnetic....238
Rings
O, Impact Sockets 122, 125, 126, 127
Ret, Impact Sockets 123, 125, 127
Tool Post....286
Rivet Buster 231
Roller Cabinets 102-105
Rolls, Vinyl 164-165
Rubber Mallet....226

S

Safety Glasses 228
Saws, Hand
Blades....238
Flat Frame....237
Hacksaw 237
High Tension....238
Tubular Frame....237
Scrapers....239
Screw Extractors 239
Screw Starters 203
Screwdriver Bit Sockets....27, 35, 45
Screwdrivers
Clear Handle 192-194
Cabinet 193
Electricians' 193
Phillips....192
Round Shank....192
Square Shank 193
Square Tip....194
Torx....194
Cushion Grip 195-196
Cabinet 196
Electricians' 196
Phillips....195
Round Shank....195
Square Shank 196
Offset 197
Sets 197-201
Set-Up Tools....260-263
Sets
Chisel 232
Feeler Gauge 235-237
Hex Driver Socket 58, 66, 80-81, 122
Hex Key, Allen 290-305
Impact Sockets
1/2" Drive 116-118
3/4" Drive 121-122
Master....6-21
Nut Driver 202-203
Power Sockets
3/8" Drive 110-112
Hexdriver....121
Punch 231-232
Punch and Chisel....233-234
Retaining Ring Pliers....215-217
Screwdriver....197-201
Screw Extractor 239
Sockets and Drive Tools, Chrome
1/4" Drive 58-65
3/8" Drive 65-79
1/2" Drive 80-91
3/4" Drive 91-96
1" Drive 96-97
Wheel and Gear Puller 242-244, 246, 248, 250
Wiretwister Pliers 219
Wrench
Black Finish 170-174
Box....152-157
Combination 138-148, 170-171
Extra Long 145-146
Extra Short 139
Flare Nut 161
Flex Head....148
Wrench (continued)
Miniature 160
Open End 150-151, 159, 172
Ratcheting Box 156-157, 173-174
Ratcheting Flare Nut....162-163
Satin Finish 146-147
Spanner....180
Tappet 158
Sledge Hammers 228
Sliding T-Handles....28, 38, 48, 53, 55
Snips, Tin....219
Socket Bars 105
Socket Clips 105
Sockets
Axle Nut, 3/4" Drive....52
Budd Wheel 121, 124
Crowfoot
Flare Nut 36, 46
Open End....36, 46
Hand, Chrome
1/4" Drive 24-27
3/8" Drive 29-36
1/2" Drive 40-46
3/4" Drive 50-52
1" Drive 54
Flare Nut Crowfoot
3/8" Drive....36
1/2" Drive....46
Flex, Chrome
3/8" Drive....34
1/2" Drive....44
Flip 116
Hexdriver
1/4" Drive....26
3/8" Drive 34-35
1/2" Drive 44-45
Impact
1/2" Drive 112-116
3/4" Drive 119-121
1" Drive 123-124
1-1/2" Drive 126
2-1/2" Drive 127
No. 5 Spline....107
Sets 116-118, 121-122
Power
1/4" Drive....107
3/8" Drive 108-110
1/2" Drive 113, 115-116
Hexdriver....122
Sets 110-112
Universal 110, 115-116
Self-Tapping Screws, Power....107
Self-Tapping Screws, Magnetic 107, 108, 113
Screwdriver
1/4" Drive....27
3/8" Drive....35
1/2" Drive....45
Screwdriver, Drag Link, 1/2" Drive 46
Sets....58-97
Spark Plug 33, 43
Torx Bit
1/4" Drive....27
3/8" Drive....36
1/2" Drive....46
Soft Face Hammer Tips 224
Soft Face Hammers 223-224

Spanner Wrenches
- Adjustable Face....179
- Adjustable Hook....179
- Adjustable Pin....180
- Face....178
- Pin....179
- Sets....180

Speeder Handles....28, 38, 48
Spinners, Ratchet....29, 39, 48
Spline Drive, No. 5
- Impact Adapter....106
- Impact Extension....106
- Impact Sockets....106
- Impact Universal Joint....106

Spud Ratchet....47
Square Throat C-Clamps....257
Steel Chest....100-105
Storage, Tool....100-105, 164-165
Strap Clamps....260
Striking Wrenches....176-178
Stud Remover, 1/2" Drive....48

T

T-Handles....28, 38, 48, 53, 55
T-Slot Bolts....262
T-Slot Clamps....260
Tapes, Measuring....222-223
Tappet Wrenches....158
Threading
- Cutters....271
- Tool Holders....271

Tin Snips....219
Tips, Soft Face Hammer....224
Tongs, Chain....251-252
Tongs, Pipe....251-252
Tool Bit Sets....278
Tool Bits....270, 274-281
Tool Boxes....100-105
Tool Chests....100-105
Tool Holders
- Boring....268-269
- Carbide....266-277
- Cut-Off....267-268
- Knurling....271
- Reversible Yoke Boring....268
- Spring Cut-Off....268
- Threading....271
- Turning....266

Tool Post Fittings....286
Tool Post Rings....286
Tool Post Wedges....286
Tool Pouches....164-165
Tool Storage....100-105, 164-165
Torque Multiplier....189
Torque Testers, Electronic....188
Torque Wrench
- Clicker....184-185
- Computorq II....187-188
- Deflecting Beam....189
- Dial....186-187
- Electronic....187-188
- Electronic Torque Tester....188
- Micrometer Adjustable....184-185
- Multiplier....189
- Pre-Set....185
- Screwdriver....184
- Wire Dial Guard....187

Torx
- Bit Sockets....27
- Keys....36
- Screwdrivers....46

Tote Trays....100
Tube Cutter....253
Tube Flaring Tools....253
Tubing Tool Set....253

U

U-Joint
- Hand, Chrome
  - 1/4" Drive....29
  - 3/8" Drive....39
  - 1/2" Drive....48
  - 3/4" Drive....53
- Impact
  - 1/2" Drive....118
  - 3/4" Drive....122
  - 1" Drive....125
  - 1-1/2" Drive....126
  - No. 5 Spline Drive....106
- Power
  - 3/8" Drive....112

Utility Knife....222
Utility Vises....259

V

Vinyl Rolls....164-165
Vise
- Chain Pipe....253
- Utility....259

W

Washers, T-Slot....263
Wedges
- Set-Up....261
- Tool Post....286

Wheel and Gear Pullers....242-250
Workbench, Mobile....103
Wrench
- Adjustable
  - Black Finish....180
  - Chrome....163
  - Cushion Grip....163
  - Construction....174
- Angle, 15° & 80° Miniature....159
- Black Finish
  - Adjustable....180
  - Adjustable Construction....174
  - Check Nut, Thin....173
  - Combination....168-169
  - Construction....174-176
  - Offset Socket....181
  - Open End, Double Head....171
  - Open End, Single Head....172
  - Ratcheting Box....173
  - Set Screw....181
  - Sets....170-174
  - Spanner....178-180
  - Striking Face....176-178
  - Structural....175
  - T-Handle Socket....180-181
- Box
  - 15° Long....151-152
  - 15° Short....151
  - 45° Miniature....153
  - 45° Long....153
  - 45° Short....153
- Combination
  - Extra Long....136
  - Extra Short....132
  - Flex-Head....138
  - Long....133-135, 169
  - Short....130-131, 168
- Combination, Satin Finish....137
- Construction
  - Adjustable....174
  - Black Finish....174-176
- Flare Nut....161-163
- Industrial....168-181
- Offset Socket....181
- Open End....149, 171-172
- Open End Angle....158
- Pipe....250
- Pump, Thin Pattern....161
- Ratcheting Box
  - 25° Offset....157
  - Straight....155, 173
- Set Screw....181
- Sets....138-163
- Spanner....178-180
- Striking Face Box....176-178
- Structural....175
- Tappet, Double End....158
- T-Handle Socket....180-181
- Torque....184-189

Product Number Index

ARMSTRONG TOOLS
A Danaher Brand

10-004....24
10-005....24
10-006....24
10-007....24
10-008....24
10-009....24
10-010....24
10-011....24
10-012....24
10-014....24
10-016....24
10-018....24
10-106....24
10-107....24
10-108....24
10-109....24
10-110....24
10-111....24
10-112....24
10-114....24
10-116....24
10-118....24
10-204....25
10-205....25
10-206....25
10-207....25
10-208....25
10-209....25
10-210....25
10-211....25
10-212....25
10-214....25
10-216....25
10-218....25
10-306....25
10-307....25
10-308....25
10-309....25
10-310....25
10-311....25
10-312....25
10-314....25
10-316....25
10-318....25
10-406....26
10-408....26
10-410....26
10-412....26
10-703....26
10-704....26
10-705....26
10-706....26
10-707....26
10-708....26
10-709....26
10-710....26
10-711....26
10-712....26
10-713....26
10-714....26
10-743....26
10-744....26
10-745....26
10-746....26
10-747....26
10-748....26
10-749....26
10-750....26
10-751....26
10-752....26
10-753....26
10-754....26
10-801....27
10-802....27
10-821....27
10-822....27
10-823....27
10-868....27
10-870....27
10-872....27
10-874....27
10-876....27
10-878....27
10-880....27
10-918....28
10-921....28
10-922....28
10-923....28
10-924....28
10-925....28
10-929....28
10-931....28
10-935....28
10-938....28
10-943....29
10-945....29
10-947....29
10-952....29
10-970....29
10-972....28
10-990....29
11-008....29
11-010....29
11-011....29
11-012....29
11-014....29
11-016....29
11-018....29
11-020....29
11-022....29
11-024....29
11-026....29
11-028....29
11-030....29
11-032....29
11-108....30
11-110....30
11-111....30
11-112....30
11-114....30
11-116....30
11-118....30
11-119....30
11-120....30
11-122....30
11-124....30
11-126....30
11-128....30
11-130....30
11-132....30
11-208....31
11-210....31
11-211....31
11-212....31
11-214....31
11-216....31
11-218....31
11-220....31
11-222....31
11-224....31
11-226....31
11-228....31
11-230....31
11-232....31
11-308....32
11-310....32
11-311....32
11-312....32
11-314....32
11-316....32
11-318....32
11-320....32
11-322....32
11-324....32
11-326....32
11-328....32
11-330....32
11-332....32
11-408....33
11-409....33
11-410....33
11-412....33
11-414....33
11-416....33
11-418....33
11-420....33
11-501....33
11-504....33
11-512....34
11-514....34
11-516....34
11-518....34
11-520....34
11-522....34
11-524....34
11-708....34
11-709....34
11-710....34
11-711....34
11-712....34
11-713....34
11-714....34
11-715....34
11-748....35
11-750....35
11-751....35
11-752....35
11-753....35
11-754....35
11-755....35
11-802....35
11-803....35
11-805....35
11-821....35
11-822....35
11-825....35
11-828....35
11-842....36
11-843....36
11-844....36
11-845....36
11-846....36
11-847....36
11-848....36
11-849....36
11-850....36
11-851....36
11-852....36
11-853....36
11-854....36
11-855....36
11-856....36
11-857....36
11-858....36
11-859....36
11-860....36
11-870....36
11-872....36
11-874....36
11-876....36
11-878....36
11-880....36
11-882....36
11-884....36
11-886....36
11-888....36
11-908....37
11-909....37
11-913....37
11-918....37
11-921....38
11-922....38
11-923....38
11-925....38
11-927....38
11-928....38
11-929....38
11-931....38
11-935....38
11-938....38
11-943....38
11-944....38
11-945....39
11-947....39
11-951....39
11-952....39
11-965....39
11-969....39
11-970....39
11-972....37
11-973....37
11-974....37
11-990....39
11-991....39
12-012....40
12-014....40
12-016....40
12-018....40
12-020....40
12-022....40
12-024....40
12-026....40
12-028....40
12-030....40
12-032....40
12-034....40
12-036....40
12-038....40
12-040....40
12-042....40
12-044....40
12-046....40
12-048....40
12-112....41
12-114....41
12-116....41
12-118....41
12-119....41
12-120....41
12-121....41
12-122....41
12-124....41
12-125....41
12-126....41
12-128....41
12-130....41
12-132....41
12-134....41
12-136....41
12-138....41
12-140....41
12-142....41
12-144....41
12-146....41
12-148....41
12-212....42
12-214....42
12-216....42
12-218....42
12-220....42
12-222....42
12-224....42
12-226....42
12-228....42
12-230....42
12-232....42
12-234....42
12-236....42
12-238....42
12-240....42
12-242....42
12-244....42
12-246....42
12-248....42
12-312....42
12-314....42
12-316....42
12-318....42
12-320....42
12-322....42
12-324....42
12-326....42
12-328....42
12-330....42
12-332....42
12-334....42
12-336....42
12-338....42
12-340....42
12-342....42
12-344....42
12-346....42
12-348....42
12-410....43
12-412....43
12-414....43
12-416....43
12-418....43
12-420....43
12-422....43
12-424....43
12-426....43
12-428....43
12-432....43
12-504....43
12-516....44
12-518....44
12-520....44
12-522....44
12-524....44
12-713....44
12-714....44
12-715....44
12-716....44
12-717....44
12-718....44
12-719....44
12-721....44
12-753....45
12-754....45
12-755....45
12-757....45
12-758....45
12-759....45
12-802....45
12-803....45
12-805....45
12-821....45
12-822....45
12-825....45
12-828....45
12-840....46
12-841....46
12-842....46
12-843....46
12-844....46
12-845....46
12-846....46
12-847....46
12-848....46
12-849....46
12-850....46
12-851....46
12-852....46
12-853....46
12-854....46
12-859....46
12-860....46
12-861....46
12-862....46
12-863....46
12-866....46
12-867....46
12-878....46
12-880....46
12-882....46
12-884....46
12-886....46
12-888....46
12-890....46
12-892....46
12-893....46
12-907....47
12-913....47
12-914....47
12-916....47
12-917....47
12-918....47
12-921....48
12-923....48
12-924....48
12-927....48
12-935....48
12-938....48
12-944....48
12-945....48
12-947....48
12-948....48
12-951....49
12-952....49
12-968....49
12-969....49
12-970....49
12-971....49
12-972....47
12-973....47
12-974....47
12-990....49
12-991....49
13-124....50
13-126....50
13-128....50
13-130....50
13-132....50
13-134....50
13-136....50
13-138....50
13-140....50
13-142....50
13-144....50
13-146....50
13-148....50
13-150....50
13-152....50

Product Number Index

Product Number Index

13-154....50
13-156....50
13-158....50
13-160....50
13-164....50
13-166....50
13-168....50
13-170....50
13-172....50
13-174....50
13-176....50
13-234....51
13-236....51
13-240....51
13-242....51
13-244....51
13-246....51
13-248....51
13-252....51
13-328....51
13-330....51
13-332....51
13-334....51
13-336....51
13-340....51
13-342....51
13-344....51
13-346....51
13-348....51
13-352....51
13-802....52
13-803....52
13-805....52
13-806....52
13-808....52
13-809....52
13-810....52
13-811....52
13-813....52
13-816....52
13-818....52
13-822....52
13-826....52
13-834....52
13-836....52
13-838....52
13-840....52
13-845....52
13-855....52
13-859....52
13-863....52
13-868....52
13-872....52
13-876....52
13-880....52
13-882....52
13-884....52
13-890....52
13-895....52
13-906....52
13-918....52
13-922....53
13-923....53
13-925....53
13-938....53
13-947....53
13-951....53
13-952....53
13-966....53
13-970....53
14-134....54
14-136....54
14-140....54
14-142....54
14-144....54
14-146....54
14-148....54
14-152....54
14-154....54
14-156....54
14-158....54
14-160....54
14-164....54
14-168....54
14-170....54
14-172....54
14-176....54
14-180....54
14-182....54
14-184....54
14-188....54
14-194....54
14-196....54
14-200....54
14-212....54
14-906....54
14-918....54
14-924....54
14-926....54
14-939....55
14-940....55
14-951....55
14-966....55
16-008....6
16-009....7
16-010....8
16-011....6
16-012....7
16-013....8
16-016....10
16-017....11
16-018....13
16-019....10
16-020....11
16-021....13
16-023....14
16-024....14
16-030....15
16-031....15
16-035....16
16-036....16
16-045....16
16-046....16
16-053....17
16-054....17
16-055....18
16-056....18
16-065....20
16-080....21
16-083....21
16-109....58
16-112....58
16-114....58
16-117....58
16-120....59
16-124....59
16-126....59
16-128....60
16-152....60
16-158....61
16-159....62
16-172....62
16-174....63
16-193....64
16-209....65
16-212....66
16-214....66
16-216....67
16-217....67
16-220....67
16-221....67
16-224....68
16-225....68
16-226....69
16-227....69
16-228....70
16-229....70
16-231....71
16-234....71
16-235....71
16-238....71
16-240....72
16-252....72
16-254....73
16-272....74
16-278....75
16-293....76
16-309....78
16-312....78
16-314....78
16-316....79
16-317....79
16-318....79
16-319....80
16-324....80
16-325....80
16-326....81
16-327....81
16-328....82
16-329....82
16-331....82
16-334....83
16-335....83
16-340....83
16-352....83
16-354....84
16-356....85
16-376....86
16-393....88
16-424....89
16-428....90
16-454....91
16-456....92
16-478....93
16-554....94
16-556....95
16-578....95
16-601....98
16-604....98
16-606....98
16-613....98
16-615....98
16-621....98
16-623....98
16-629....98
16-635....98
16-641....98
16-649....98
16-651....98
16-653....98
16-657....98
16-659....98
16-681....98
16-685....98
16-691....98
16-695....98
16-719....99
16-721....99
16-722....99
16-724....99
16-726....99
16-740....100
16-743....100
16-744....100
16-750....101
16-755....101
16-757....101
16-760....101
16-762....102
16-770....103
16-781....102
16-783....102
16-831....103
16-832....103
16-834....103
16-835....103
16-841....103
16-843....103
16-845....103
16-847....103
17-434....106
17-436....106
17-440....106
17-442....106
17-444....106
17-446....106
17-448....106
17-452....106
17-454....106
17-456....106
17-458....106
17-460....106
17-464....106
17-468....106
17-470....106
17-472....106
17-474....106
17-476....106
17-480....106
17-482....106
17-484....106
17-488....106
17-496....106
17-592....106
17-596....106
17-598....106
18-006....107
18-007....107
18-008....107
18-009....107
18-010....107
18-011....107
18-012....107
18-014....107
18-016....107
18-036....107
18-038....107
18-039....107
18-040....107
18-041....107
18-042....107
18-044....107
18-046....107
18-076....107
18-078....107
18-079....107
18-080....107
18-081....107
18-082....107
18-084....107
18-086....107
18-206....107
18-208....107
18-209....107
18-210....107
18-211....107
18-212....107
18-214....107
18-216....107
18-921....108
18-923....108
18-972....28
19-008....108
19-010....108
19-012....108
19-014....108
19-016....108
19-018....108
19-020....108
19-022....108
19-024....108
19-080....108
19-082....108
19-084....108
19-086....108
19-088....108
19-108....109
19-110....109
19-112....109
19-114....109
19-116....109
19-118....109
19-120....109
19-122....109
19-124....109
19-126....109
19-128....109
19-130....109
19-132....109
19-208....109
19-210....109
19-212....109
19-214....109
19-216....109
19-218....109
19-220....109
19-222....109
19-224....109
19-308....110
19-310....110
19-312....110
19-314....110
19-316....110
19-318....110
19-320....110
19-322....110
19-324....110
19-326....110
19-328....110
19-330....110
19-332....110
19-512....110
19-514....110
19-516....110
19-518....110
19-520....110
19-522....110
19-524....110
19-562....110
19-564....110
19-566....110
19-568....110
19-570....110
19-572....110
19-574....110
19-892....110
19-893....111
19-896....111
19-897....111
19-913....37
19-918....37
19-922....112
19-923....112
19-947....112
19-952....112
19-972....37
20-012....112
20-014....112
20-016....112
20-018....112
20-020....112
20-022....112
20-024....112
20-026....112
20-028....112
20-030....112
20-032....112
20-034....112
20-036....112
20-038....112
20-040....112
20-042....112
20-044....112
20-046....112
20-048....112
20-082....113
20-084....113
20-086....113
20-088....113
20-112....113
20-114....113
20-116....113
20-118....113
20-120....113
20-122....113
20-124....113
20-126....113
20-128....113
20-130....113
20-132....113
20-134....113
20-136....113
20-140....113
20-142....113
20-144....113
20-146....113
20-148....113
20-212....114
20-214....114
20-216....114
20-218....114
20-220....114
20-222....114
20-224....114
20-226....114
20-228....114
20-230....114
20-232....114
20-234....114
20-236....114
20-240....114
20-242....114
20-244....114
20-246....114
20-248....114
20-312....115
20-314....115
20-316....115
20-318....115
20-320....115
20-322....115
20-324....115
20-326....115
20-328....115

Product Number Index

20-330....115
20-332....115
20-334....115
20-336....115
20-340....115
20-412....115
20-414....115
20-416....115
20-418....115
20-420....115
20-422....115
20-424....115
20-426....115
20-428....115
20-430....115
20-432....115
20-516....115
20-518....115
20-520....115
20-522....115
20-524....115
20-566....116
20-568....116
20-570....116
20-572....116
20-574....116
20-576....116
20-578....116
20-580....116
20-582....116
20-595....116
20-890....116
20-892....116
20-893....117
20-896....117
20-897....117
20-913....47
20-918....48
20-923....118
20-924....118
20-947....118
20-951....118
20-952....118
20-953....118
20-959....118
20-966....49
20-972....47
20-996....119
21-016....119
21-018....119
21-020....119
21-022....119
21-024....119
21-026....119
21-028....119
21-030....119
21-032....119
21-034....119
21-036....119
21-038....119
21-040....119
21-042....119
21-044....119
21-046....119
21-048....119
21-052....119
21-054....119
21-218....120
21-220....120
21-222....120
21-224....120
21-226....120
21-228....120
21-230....120
21-232....120
21-234....120
21-236....120
21-238....120
21-240....120
21-242....120
21-244....120
21-246....120
21-248....120
21-252....120
21-254....120
21-420....120
21-424....120
21-426....120
21-428....120
21-430....120
21-432....120
21-434....120
21-436....120
21-440....120
21-446....120
21-505....121
21-718....121
21-719....121
21-721....121
21-723....121
21-725....121
21-893....121
21-899....122
21-906....52
21-918....53
21-923....122
21-924....122
21-925....122
21-947....122
21-951....122
21-952....122
21-953....122
21-962....122
21-963....122
21-964....123
21-965....123
21-966....53
21-967....123
22-024....123
22-026....123
22-028....123
22-030....123
22-032....123
22-034....123
22-036....123
22-038....123
22-040....123
22-042....123
22-044....123
22-046....123
22-048....123
22-050....123
22-052....123
22-054....123
22-056....123
22-058....123
22-060....123
22-062....123
22-064....123
22-066....123
22-068....123
22-070....123
22-072....123
22-074....123
22-076....123
22-078....123
22-080....123
22-082....123
22-084....123
22-086....123
22-088....123
22-090....123
22-092....123
22-094....123
22-096....123
22-100....123
22-104....123
22-108....123
22-112....123
22-116....123
22-228....124
22-230....124
22-232....124
22-234....124
22-236....124
22-238....124
22-240....124
22-242....124
22-244....124
22-246....124
22-248....124
22-250....124
22-252....124
22-254....124
22-256....124
22-258....124
22-260....124
22-262....124
22-264....124
22-266....124
22-268....124
22-270....124
22-272....124
22-274....124
22-276....124
22-424....124
22-426....124
22-428....124
22-432....124
22-436....124
22-505....124
22-906....54
22-923....125
22-925....125
22-947....125
22-951....125
22-952....125
22-954....125
22-962....125
22-963....125
22-964....125
22-965....125
23-044....126
23-046....126
23-048....126
23-052....126
23-054....126
23-058....126
23-060....126
23-064....126
23-066....126
23-068....126
23-070....126
23-072....126
23-076....126
23-078....126
23-080....126
23-082....126
23-084....126
23-088....126
23-092....126
23-094....126
23-096....126
23-100....126
23-108....126
23-112....126
23-116....126
23-120....126
23-124....126
23-128....126
23-132....126
23-136....126
23-144....126
23-148....126
23-160....126
23-906....55
23-924....126
23-928....126
23-947....126
23-951....126
23-962....126
23-963....126
23-964....127
23-966....55
24-064....127
24-068....127
24-072....127
24-076....127
24-084....127
24-088....127
24-094....127
24-096....127
24-100....127
24-104....127
24-108....127
24-112....127
24-116....127
24-120....127
24-124....127
24-128....127
24-132....127
24-136....127
24-140....127
24-144....127
24-148....127
24-152....127
24-156....127
24-160....127
24-164....127
24-168....127
24-172....127
24-176....127
24-184....127
24-196....127
24-208....127
24-220....127
24-244....127
24-256....127
24-961....127
24-962....127
24-963....127
25-004....130
25-005....130
25-006....130
25-007....130
25-008....130
25-009....130
25-010....130
25-011....130
25-012....130
25-014....130
25-016....130
25-018....130
25-020....130
25-108....131
25-110....131
25-111....131
25-112....131
25-114....131
25-116....131
25-118....131
25-119....131
25-120....131
25-122....131
25-124....131
25-125....131
25-126....131
25-128....131
25-130....131
25-132....131
25-162....132
25-164....132
25-166....132
25-168....132
25-170....132
25-172....132
25-174....132
25-208....133
25-210....133
25-211....133
25-212....133
25-214....133
25-216....133
25-218....133
25-220....133
25-222....133
25-224....133
25-226....133
25-228....133
25-230....133
25-232....133
25-234....133
25-236....133
25-238....133
25-240....133
25-242....133
25-244....133
25-246....133
25-248....133
25-252....133
25-254....133
25-256....133
25-258....133
25-260....133
25-264....133
25-266....133
25-268....133
25-270....133
25-272....133
25-276....133
25-280....133
25-282....133
25-284....133
25-288....133
25-308....135
25-310....135
25-312....135
25-314....135
25-316....135
25-318....135
25-320....135
25-322....135
25-324....135
25-326....135
25-328....135
25-330....135
25-332....135
25-412....136
25-414....136
25-416....136
25-418....136
25-420....136
25-422....136
25-424....136
25-426....136
25-428....136
25-430....136
25-432....136
25-458....137
25-460....137
25-462....137
25-464....137
25-466....137
25-468....137
25-470....137
25-472....137
25-474....137
25-476....137
25-478....137
25-480....137
25-482....137
25-484....137
25-486....137
25-488....137
25-490....137
25-508....138
25-510....138
25-512....138
25-514....138
25-516....138
25-518....138
25-520....138
25-522....138
25-524....138
25-526....138
25-528....138
25-603....138
25-604....138
25-605....139
25-609....139
25-610....139
25-613....140
25-614....140
25-627....141
25-628....141
25-629....141
25-630....141
25-631....142
25-632....142
25-635....143
25-636....143
25-643....143
25-644....143
25-652....144
25-656....145
25-658....145
25-671....145
25-675....146
25-677....146
25-678....146
25-679....147
25-683....148
25-684....148
25-687....148
25-688....148
26-007....149
26-022....149
26-031....149
26-034....149
26-043....149
26-046....149
26-058....149
26-064....149
26-067....149

26-079....149
26-094....149
26-097....149
26-106....149
26-121....149
26-124....149
26-133....149
26-139....149
26-145....149
26-151....149
26-163....149
26-166....149
26-169....149
26-172....149
26-178....149
26-187....149
26-190....149
26-199....149
26-202....149
26-274....150
26-275....150
26-282....150
26-283....150
26-543....151
26-558....151
26-567....151
26-579....151
26-643....151
26-658....151
26-667....151
26-679....151
26-694....151
26-697....151
26-706....151
26-724....151
26-733....151
26-739....151
26-745....151
26-751....151
26-754....151
26-763....151
26-766....151
26-769....151
26-775....151
26-778....151
26-793....151
26-799....151
26-850....152
26-851....152
27-001....153
27-016....153
27-019....153
27-031....153
27-143....153
27-158....153
27-167....153
27-194....153
27-206....153
27-334....153
27-343....153
27-358....153
27-364....153
27-367....153
27-379....153
27-394....153
27-397....153
27-406....153
27-424....153
27-439....153
27-451....153
27-466....153
27-469....153
27-475....153
27-481....153
27-563....154
27-568....155
27-569....155
27-587....155
27-588....155
27-590....155
27-591....155
27-593....155
27-594....155
27-596....155
27-599....155
27-601....155
27-602....155
27-603....155
27-604....155
27-605....156
27-608....156
27-613....157
27-614....157
27-616....157
27-617....157
27-619....157
27-620....157
27-622....157
27-624....157
27-626....157
27-628....157
27-635....157
27-643....158
27-658....158
27-667....158
27-679....158
27-694....158
27-724....158
27-751....158
27-770....158
27-812....158
27-814....158
27-816....158
27-818....158
27-820....158
27-822....158
27-824....158
27-826....158
27-828....158
27-830....158
27-832....158
27-834....158
27-836....158
27-840....158
27-844....158
27-846....158
27-848....158
27-852....158
27-854....158
27-856....158
27-858....158
27-860....158
27-864....158
27-884....159
27-885....159
27-894....159
27-895....159
27-903....159
27-904....159
27-906....159
27-907....159
27-908....159
27-909....159
27-910....159
27-911....159
27-912....159
27-914....159
27-916....159
27-918....159
27-920....159
27-941....160
27-943....160
28-024....161
28-028....161
28-030....161
28-032....161
28-034....161
28-036....161
28-038....161
28-040....161
28-042....161
28-044....161
28-046....161
28-048....161
28-050....161
28-052....161
28-056....161
28-060....161
28-064....161
28-068....161
28-072....161
28-076....161
28-080....161
28-130....161
28-135....161
28-140....161
28-145....161
28-150....161
28-155....161
28-212....162
28-214....162
28-216....162
28-218....162
28-220....162
28-222....162
28-224....162
28-228....162
28-312....162
28-314....162
28-316....162
28-318....162
28-320....162
28-322....162
28-324....162
28-326....162
28-328....162
28-330....162
28-332....162
28-385....162
28-404....163
28-406....163
28-408....163
28-410....163
28-412....163
28-415....163
28-418....163
28-424....163
28-454....163
28-456....163
28-458....163
28-460....163
28-462....163
28-465....163
29-304....164
29-306....164
29-308....164
29-312....164
29-316....164
29-320....164
29-332....164
29-336....164
29-340....164
29-342....164
29-343....164
29-344....164
29-345....164
29-348....164
29-352....164
29-354....164
29-356....164
29-357....164
29-360....164
29-361....164
29-362....164
29-363....164
29-364....164
29-368....164
29-370....164
29-373....164
29-377....164
29-384....164
29-386....164
29-388....164
30-108....168
30-110....168
30-112....168
30-114....168
30-116....168
30-118....168
30-120....168
30-122....168
30-124....168
30-126....168
30-128....168
30-130....168
30-132....168
30-208....169
30-210....169
30-211....169
30-212....169
30-214....169
30-216....169
30-218....169
30-220....169
30-222....169
30-224....169
30-226....169
30-228....169
30-230....169
30-232....169
30-234....169
30-236....169
30-238....169
30-240....169
30-242....169
30-244....169
30-246....169
30-248....169
30-252....169
30-254....169
30-256....169
30-258....169
30-260....169
30-264....169
30-266....169
30-268....169
30-270....169
30-272....169
30-276....169
30-280....169
30-282....169
30-284....169
30-288....169
30-609....170
30-613....170
30-631....170
30-635....171
30-643....171
30-734....171
30-743....171
30-758....171
30-767....171
30-779....171
30-794....171
30-797....171
30-806....171
30-824....171
30-851....171
30-869....171
30-872....171
30-896....171
30-902....171
30-974....172
31-008....172
31-010....172
31-012....172
31-014....172
31-016....172
31-018....172
31-022....172
31-024....172
31-028....172
31-030....172
31-032....172
31-034....172
31-036....172
31-040....172
31-044....172
31-046....172
31-048....172
31-052....172
31-058....172
31-064....172
31-070....172
31-072....172
31-076....172
31-078....172
31-082....172
31-084....172
31-088....172
31-094....172
31-096....172
31-314....173
31-316....173
31-318....173
31-320....173
31-322....173
31-324....173
31-326....173
31-328....173
31-330....173
31-332....173
31-334....173
31-336....173
31-340....173
31-348....173
31-352....173
32-453....173
32-455....173
32-457....173
32-459....173
32-461....173
32-463....173
32-465....173
32-468....173
32-495....174
32-520....175
32-524....175
32-528....175
32-530....175
32-532....175
32-534....175
32-536....175
32-540....175
32-542....175
32-546....175
32-548....175
32-552....175
32-558....175
32-560....175
32-564....175
32-628....175
32-630....175
32-632....175
32-634....175
32-636....175
32-640....175
32-642....175
32-646....175
32-648....175
32-652....175
32-728....175
32-730....175
32-732....175
32-734....175
32-736....175
32-740....175
32-742....175
32-746....175
32-748....175
32-752....175
32-758....175
32-760....175
32-764....175
32-820....176
32-822....176
32-824....176
32-828....176
32-830....176
32-832....176
32-834....176
32-836....176
32-840....176
32-842....176
32-846....176
32-848....176
32-852....176
32-858....176
32-860....176
32-864....176
33-034....176
33-036....176
33-040....176
33-042....176
33-046....176
33-048....176
33-052....176
33-054....176
33-056....176
33-058....176
33-060....176
33-062....176
33-064....176
33-068....176
33-070....176
33-072....176
33-074....176
33-076....176
33-080....176
33-082....176
33-084....176
33-088....176
33-092....176
33-094....176

Product Number Index

Product Number Index

33-096....176
33-100....176
33-340....177
33-342....177
33-344....177
33-346....177
33-348....177
33-352....177
33-354....177
33-356....177
33-358....177
33-360....177
33-364....177
33-366....177
33-368....177
33-370....177
33-372....177
33-376....177
33-382....177
33-384....177
33-388....177
33-394....177
33-396....177
33-400....177
33-408....177
33-412....177
33-420....177
33-424....177
33-432....177
33-436....177
33-444....177
33-448....177
33-452....177
33-460....177
33-468....177
33-472....177
33-476....177
33-484....177
33-492....177
33-534....178
33-540....178
33-546....178
33-552....178
33-558....178
33-564....178
33-570....178
33-576....178
33-582....178
33-588....178
33-594....178
33-600....178
33-612....178
33-624....178
34-101....178
34-104....178
34-107....178
34-110....178
34-113....178
34-116....178
34-119....178
34-121....178
34-124....178
34-127....178
34-130....178
34-133....178
34-136....178
34-151....179
34-154....179
34-157....179
34-201....179
34-204....179
34-207....179
34-210....179
34-213....179
34-216....179
34-219....179
34-222....179
34-225....179
34-228....179
34-231....179
34-234....179
34-237....179
34-240....179
34-243....179
34-301....179
34-305....179
34-307....179
34-310....179
34-313....179
34-351....180
34-354....180
34-358....180
34-361....180
34-363....180
34-366....180
34-376....180
34-404....180
34-406....180
34-408....180
34-410....180
34-412....180
34-415....180
34-418....180
35-010....180
35-012....180
35-014....180
35-016....180
35-018....180
35-020....180
35-024....180
35-034....180
35-108....181
35-110....181
35-112....181
35-114....181
35-116....181
35-310....181
35-316....181
35-320....181
35-324....181
35-328....181
35-451....181
35-457....181
35-463....181
35-466....181
35-469....181
35-472....181
35-478....181
35-510....181
35-512....181
35-514....181
35-516....181
35-518....181
35-520....181
35-524....181
35-528....181
35-532....181
37-004....24
37-005....24
37-006....24
37-007....24
37-008....24
37-009....24
37-010....24
37-011....24
37-012....24
37-013....24
37-014....24
37-015....24
37-081....24
37-083....24
37-204....25
37-205....25
37-206....25
37-207....25
37-208....25
37-209....25
37-210....25
37-211....25
37-212....25
37-213....25
37-214....25
37-215....25
37-281....25
37-283....25
37-703....26
37-704....26
37-705....26
37-707....26
37-709....26
37-711....26
37-713....26
38-006....30
38-007....30
38-008....30
38-009....30
38-010....30
38-011....30
38-012....30
38-013....30
38-014....30
38-015....30
38-016....30
38-017....30
38-018....30
38-019....30
38-020....30
38-021....30
38-022....30
38-023....30
38-026....30
38-106....31
38-107....31
38-108....31
38-109....31
38-110....31
38-111....31
38-112....31
38-113....31
38-114....31
38-115....31
38-116....31
38-117....31
38-118....31
38-119....31
38-120....31
38-121....31
38-122....31
38-123....31
38-126....32
38-206....32
38-207....32
38-208....32
38-209....32
38-210....32
38-211....32
38-212....32
38-213....32
38-214....32
38-215....32
38-216....32
38-217....32
38-218....32
38-219....32
38-220....32
38-221....32
38-222....32
38-223....32
38-226....32
38-306....33
38-307....33
38-308....33
38-309....33
38-310....33
38-311....33
38-312....33
38-313....33
38-314....33
38-315....33
38-316....33
38-317....33
38-318....33
38-319....33
38-320....33
38-321....33
38-322....33
38-323....33
38-326....33
38-705....34
38-707....34
38-709....34
38-711....34
38-712....34
38-713....34
38-714....34
38-715....34
38-747....35
38-749....35
38-751....35
38-752....35
38-753....35
38-754....35
38-755....35
38-850....36
38-851....36
38-852....36
38-853....36
38-854....36
38-855....36
38-856....36
38-857....36
38-858....36
38-859....36
38-861....36
38-862....36
39-010....40
39-011....40
39-012....40
39-013....40
39-014....40
39-015....40
39-016....40
39-017....40
39-018....40
39-019....40
39-020....40
39-021....40
39-022....40
39-023....40
39-024....40
39-025....40
39-026....40
39-027....40
39-028....40
39-029....40
39-030....40
39-032....40
39-036....40
39-110....41
39-111....41
39-112....41
39-113....41
39-114....41
39-115....41
39-116....41
39-117....41
39-118....41
39-119....41
39-120....41
39-121....41
39-122....41
39-123....41
39-124....41
39-125....41
39-126....41
39-127....41
39-128....41
39-129....41
39-130....41
39-132....41
39-136....41
39-310....43
39-311....43
39-312....43
39-313....43
39-314....43
39-315....43
39-316....43
39-317....43
39-318....43
39-319....43
39-320....43
39-321....43
39-322....43
39-323....43
39-324....43
39-325....43
39-326....43
39-327....43
39-328....43
39-329....43
39-330....43
39-332....43
39-711....44
39-713....44
39-715....44
39-717....44
39-719....44
39-722....44
39-724....44
39-751....45
39-753....45
39-755....45
39-757....45
39-759....45
39-762....45
40-119....50
40-120....50
40-121....50
40-122....50
40-123....50
40-124....50
40-125....50
40-126....50
40-127....50
40-128....50
40-129....50
40-130....50
40-132....50
40-135....50
40-136....50
40-138....50
40-141....50
40-142....50
40-146....50
40-150....50
40-154....50
40-155....50
40-158....50
40-160....50
40-319....51
40-322....51
40-323....51
40-324....51
40-327....51
40-330....51
40-332....51
40-335....51
40-336....51
40-338....51
40-341....51
40-346....51
40-350....51
40-355....51
40-360....51
43-009....9
43-010....9
43-017....12
43-018....12
43-053....17
43-054....17
43-055....18
43-056....18
43-070....19
43-075....19
43-083....20
43-112....58
43-120....59
43-124....59
43-152....60
43-158....61
43-172....63
43-193....65
43-211....66
43-214....66
43-218....68
43-220....68
43-222....69
43-224....69
43-230....70
43-232....70
43-252....72
43-254....73
43-256....73
43-272....74
43-293....77
43-312....78
43-314....79
43-318....80
43-320....81
43-324....81
43-332....82
43-352....84
43-354....85
43-356....86
43-376....87
43-393....89
43-424....90
43-428....90
43-454....91
43-456....92
43-478....94
46-007....108
46-008....108

ARMSTRONG TOOLS
A Danaher Brand

Product Number Index

46-009....108
46-010....108
46-011....108
46-012....108
46-013....108
46-014....108
46-015....108
46-016....108
46-017....108
46-018....108
46-019....108
46-209....109
46-210....109
46-211....109
46-212....109
46-213....109
46-214....109
46-215....109
46-216....109
46-217....109
46-218....109
46-219....109
46-893....111
46-897....112
47-009....113
47-010....113
47-011....113
47-012....113
47-013....113
47-014....113
47-015....113
47-016....113
47-017....113
47-018....113
47-019....113
47-020....113
47-021....113
47-022....113
47-023....113
47-024....113
47-025....113
47-026....113
47-027....113
47-030....113
47-209....114
47-210....114
47-211....114
47-212....114
47-213....114
47-214....114
47-215....114
47-216....114
47-217....114
47-218....114
47-219....114
47-220....114
47-221....114
47-222....114
47-223....114
47-224....114
47-225....114
47-226....114
47-227....114
47-230....114
47-893....117
47-897....118
48-019....119
48-020....119
48-021....119
48-022....119
48-023....119
48-024....119
48-025....119
48-026....119
48-027....119
48-030....119
48-032....119
48-036....119
48-041....119
48-046....119
48-050....119
48-221....120
48-222....120
48-223....120
48-224....120
48-226....120
48-227....120
48-230....120
48-232....120
48-236....120
48-241....120
48-719....121
48-722....121
48-724....121
48-725....121
48-726....121
48-893....122
52-004....130
52-005....130
52-006....130
52-007....130
52-008....130
52-083....130
52-109....131
52-110....131
52-111....131
52-112....131
52-113....131
52-114....131
52-115....131
52-116....131
52-117....131
52-118....131
52-119....131
52-120....131
52-121....131
52-160....132
52-161....132
52-162....132
52-163....132
52-164....132
52-165....132
52-166....132
52-167....132
52-168....132
52-169....132
52-206....134
52-207....134
52-208....134
52-209....134
52-210....134
52-211....134
52-212....134
52-213....134
52-214....134
52-215....134
52-216....134
52-217....134
52-218....134
52-219....134
52-220....134
52-221....134
52-222....134
52-223....134
52-224....134
52-225....134
52-226....134
52-227....134
52-228....134
52-229....134
52-230....134
52-232....134
52-236....134
52-241....134
52-246....134
52-250....134
52-306....135
52-307....135
52-308....135
52-309....135
52-310....135
52-311....135
52-312....135
52-313....135
52-314....135
52-315....135
52-316....135
52-317....136
52-318....136
52-319....136
52-410....136
52-411....136
52-412....136
52-413....136
52-414....136
52-415....136
52-416....136
52-417....136
52-418....136
52-419....136
52-420....136
52-421....136
52-456....137
52-457....137
52-458....137
52-459....137
52-460....137
52-461....137
52-462....137
52-463....137
52-464....137
52-465....137
52-466....137
52-467....137
52-468....137
52-469....137
52-470....137
52-471....137
52-472....137
52-473....137
52-474....137
52-475....137
52-476....137
52-477....137
52-478....137
52-479....137
52-480....137
52-482....137
52-601....138
52-605....139
52-607....140
52-619....140
52-623....141
52-627....142
52-631....142
52-633....143
52-637....144
52-644....144
52-671....146
52-677....147
52-678....147
53-009....149
53-016....149
53-019....149
53-022....149
53-025....149
53-034....149
53-046....149
53-052....149
53-055....149
53-061....149
53-064....149
53-067....149
53-082....149
53-085....149
53-091....149
53-096....149
53-106....149
53-115....149
53-119....149
53-127....149
53-142....149
53-145....149
53-162....149
53-175....149
53-270....150
53-274....150
53-284....151
53-616....152
53-622....152
53-634....152
53-652....152
53-661....152
53-667....152
53-682....152
53-691....152
53-696....152
53-715....152
53-719....152
53-727....152
53-742....152
53-762....152
53-775....152
53-840....152
53-860....153
54-016....154
54-322....154
54-334....154
54-352....154
54-355....154
54-361....154
54-364....154
54-367....154
54-382....154
54-385....154
54-391....154
54-396....154
54-406....154
54-415....154
54-418....154
54-419....154
54-433....154
54-445....154
54-462....154
54-475....154
54-568....154
54-572....155
54-587....155
54-590....155
54-593....155
54-596....155
54-599....155
54-602....155
54-605....155
54-608....156
54-611....156
54-637....157
54-640....157
54-643....157
54-646....157
54-649....157
54-652....157
54-655....157
54-668....157
54-902....160
54-906....160
54-907....160
54-908....160
54-909....160
54-910....160
54-911....160
54-941....160
55-307....163
55-308....163
55-309....163
55-310....163
55-311....163
55-312....163
55-313....163
55-314....163
55-315....163
55-316....163
55-317....163
55-318....163
55-319....163
55-321....163
55-322....163
55-323....163
55-324....163
55-385....163
56-006....168
56-007....168
56-008....168
56-109....168
56-110....168
56-111....168
56-112....168
56-113....168
56-114....168
56-115....168
56-116....168
56-117....168
56-118....168
56-119....168
56-210....169
56-211....169
56-212....169
56-213....169
56-214....169
56-215....169
56-216....169
56-217....169
56-218....169
56-219....169
56-220....169
56-221....169
56-222....169
56-223....169
56-224....169
56004....293
56007....293
56008....293
56009....295
56011....293
56013....295
56014....295
56015....293
56018....295
56025....297
56026....294
56028....294
56030....293
56032....293
56034....296
56036....294
56037....297
56038....294
56044....305
56046....305
56048....305
56050....305
56052....305
56054....305
56056....305
56058....305
56060....305
56062....305
56064....301
56066....291
56067....291
56068....291
56070....291
56072....291
56073....291
56074....292
56076....291
56077....292
56080....293
56081....295
56083....295
56085....296
56093....301
56100....293
56108....293
56110....296
56112....304
56114....291
56115....291
56118....291
56122....293
56128....296
56130....299
56131....299
56132....299
56133....299
56134....299
56148....295
56150....295
56152....295
56161....301
56163....301
56164....301
56165....305
56180....300
56181....300
56182....300
56183....300
56184....300
56185....300
56186....300
56187....300
56188....300
56191....298
56192....298
56193....298
56194....298
56195....298
56196....298
56197....298
56198....298
56199....298
56250....303
56251....303
56252....303

Product Number Index

56254....303
56255....302
56256....303
56257....302
56258....303
56259....302
56260....303
56261....302
56262....303
56310....293
56314....291
56316....291
56318....291
56320....291
56321....291
56323....292
56327....297
56329....297
56333....297
56346....290
56347....290
56348....290
56349....290
56357....290
56360....291
56362....291
56380....290
56382....290
56384....290
56391....291
56392....292
56393....291
56394....292
56395....291
56396....292
56882....306
56890....306
56896....292
56897....292
56900....295
56901....293
56903....293
57-853....174
57-856....174
57-859....174
57-862....174
57-865....174
57-868....174
57-871....174
57-875....174
57002....292
57004....292
57006....292
57008....292
57010....292
57012....292
57013....292
57014....292
57018....292
57020....292
57022....292
57024....292
57026....292
57028....292
57030....292
57031....292
57032....292
57034....292
57036....292
57038....292
57040....292
57042....292
57044....292
57046....292
57116....292
57118....292
57120....292
57122....292
57124....292
57126....292
57128....292
57129....292
57130....292
57131....292
57132....292
57133....292
57134....292
57135....292
57138....292
57142....292
57143....292
57197....306
57199....306
57201....306
57203....306
57205....306
57207....306
57209....306
57211....306
57213....306
57215....306
57300....301
57302....301
57304....301
57306....301
57308....301
57310....301
57312....301
57314....301
57316....301
57318....301
57320....302
57321....302
57322....302
57323....302
57324....302
57325....302
57326....302
57327....302
57328....302
57329....302
57400....305
57402....305
57404....305
57406....305
57408....305
57410....305
57412....305
57414....305
57416....305
57500....304
57502....304
57504....304
57506....304
57508....304
57510....304
57602....299
57604....299
57606....299
57608....299
57610....299
57612....299
57614....299
57616....299
57620....299
57632....299
57634....299
57636....299
57638....299
57640....299
57642....299
57644....299
57650....299
57651....299
57652....299
57653....299
57654....299
57655....299
57656....299
57657....299
57658....299
57659....299
57660....299
57661....299
57662....299
57663....299
57664....299
57670....299
57671....299
57672....299
57673....299
57674....299
57675....299
57676....299
57677....299
57678....299
57679....299
57680....299
57681....299
57682....299
57683....299
57684....299
57750....300
57751....300
57752....300
57753....300
57754....300
57755....300
57756....300
57757....300
57758....300
57759....300
57760....300
57770....300
57771....300
57772....300
57773....300
57774....300
57775....300
57776....300
57777....300
57810....305
57812....305
57814....305
57816....305
57818....305
57820....305
57822....305
57830....304
57832....304
57834....304
57836....304
57838....304
57840....304
57842....301
57844....301
57846....301
57848....301
57850....301
57860....302
57861....302
57862....302
57863....302
57864....302
57865....302
57866....302
57867....302
57900....306
57902....306
57904....306
57906....306
57908....306
57910....306
57912....306
57914....306
57918....306
57920....306
57926....306
57932....306
57942....306
57981....293
57982....293
57983....293
57984....293
57985....293
57986....293
57987....293
57988....293
57989....293
57990....293
57991....293
57992....293
57993....293
57994....293
58001....294
58002....294
58003....294
58004....294
58005....294
58006....294
58007....294
58010....294
58012....294
58014....294
58016....294
58018....294
58020....294
58020....296
58022....294
58023....294
58024....294
58026....294
58028....294
58030....294
58032....294
58034....294
58036....294
58038....294
58040....294
58042....294
58048....294
58049....294
58050....294
58052....294
58054....294
58056....294
58058....294
58060....294
58062....294
58064....294
58066....294
58068....294
58070....296
58072....296
58074....296
58075....296
58076....296
58078....296
58080....296
58082....296
58086....296
58090....294
58092....294
58094....294
58200....296
58202....296
58204....296
58206....296
58208....296
58210....296
58212....296
58250....301
58252....301
58254....301
58256....301
58258....301
58260....301
58262....301
58264....301
58266....301
58268....301
58270....302
58271....302
58272....302
58273....302
58274....302
58275....302
58276....302
58277....302
58278....302
58279....302
58280....302
58281....302
58282....302
58283....302
58284....302
58285....302
58286....302
58287....302
58400....304
58402....304
58404....304
58406....304
58408....304
58410....304
58412....304
58414....304
58416....304
58418....304
58536....306
58538....306
58540....306
58542....306
58544....306
58546....306
58548....306
58926....294
58927....294
58928....294
58929....294
58930....294
58931....294
58950....304
58951....304
58952....304
58953....304
58954....304
58955....304
59-032....177
59-036....177
59-041....177
59-046....177
59-050....177
59-055....177
59-060....177
59-065....177
59-070....177
59-075....177
59-080....177
59-332....178
59-336....178
59-341....178
59-346....178
59-350....178
59-355....178
59-360....178
59-365....178
59-370....178
59-375....178
59-380....178
59001....297
59002....297
59004....297
59005....297
59006....297
59010....297
59012....297
59014....297
59016....297
59018....297
59020....297
59022....297
59050....297
59052....297
59054....297
59056....297
59058....297
59060....297
59062....297
59064....297
59066....297
59100....298
59102....298
59104....298
59106....298
59107....298
59108....298
59109....298
59110....298
59111....298
59112....298
59113....298
59114....298
59115....298
59116....298
59117....298
59118....298
59120....298
59122....298
59124....298
59190....298
59300....298
59302....298
59304....298
59306....298
59308....298
59310....298
59312....298
59314....298
59316....298
59318....298
59320....298
59322....298
59324....298

Product Number Index

59326....298
59328....298
59330....298
59332....298
59334....298
64-002....184
64-005....184
64-031....184
64-032....184
64-038....184
64-041....184
64-042....184
64-046....184
64-049....184
64-081....185
64-082....185
64-084....185
64-085....185
64-086....185
64-089....185
64-094....185
64-095....185
64-099....185
64-212....185
64-221....185
64-226....185
64-236....185
64-302....186
64-352....186
64-355....186
64-358....186
64-402....186
64-405....186
64-407....186
64-452....186
64-455....187
64-458....187
64-502....187
64-505....187
64-515....187
64-552....187
64-562....188
64-566....188
64-576....188
64-586....188
64-592....188
64-622....188
64-632....188
64-636....188
64-646....188
64-656....188
64-720....189
64-730....189
64-740....189
64-810....189
64-813....189
64-816....189
64-819....189
64-821....189
66-101....192
66-104....192
66-107....192
66-110....192
66-113....192
66-151....192
66-154....192
66-157....192
66-159....192
66-160....192
66-162....192
66-163....192
66-166....192
66-201....193
66-204....193
66-207....193
66-210....193
66-213....193
66-216....193
66-219....193
66-222....193
66-225....193
66-228....193
66-231....193
66-251....193
66-252....193
66-254....193
66-257....193
66-260....193
66-263....193
66-264....193
66-266....193
66-269....193
66-272....193
66-301....194
66-302....194
66-303....194
66-325....194
66-328....194
66-331....194
66-334....194
66-337....194
66-340....194
66-501....195
66-504....195
66-507....195
66-521....195
66-524....195
66-527....195
66-530....195
66-541....196
66-544....196
66-547....196
66-550....196
66-553....196
66-561....196
66-564....196
66-567....196
66-570....196
66-601....197
66-603....197
66-605....197
66-607....197
66-609....197
66-613....197
66-616....197
66-617....197
66-624....198
66-625....198
66-626....198
66-627....198
66-629....198
66-630....198
66-631....199
66-632....199
66-639....199
66-640....199
66-641....199
66-642....199
66-647....200
66-648....200
66-655....200
66-656....200
66-659....200
66-661....201
66-662....201
66-671....201
66-672....201
66-806....201
66-807....201
66-808....201
66-809....201
66-810....201
66-811....201
66-812....201
66-814....201
66-816....201
66-818....201
66-820....201
66-829....202
66-831....202
66-832....202
66-833....202
66-834....202
66-835....202
66-836....202
66-837....202
66-838....202
66-839....202
66-840....202
66-843....202
66-844....202
66-845....202
66-846....202
66-848....203
66-849....203
66-921....203
66-924....203
66-927....203
66-933....203
66-936....203
66-943....203
66-962....203
67-063....206
67-065....206
67-067....206
67-069....206
67-109....206
67-111....206
67-113....206
67-123....206
67-155....206
67-159....206
67-161....206
67-163....206
67-173....207
67-175....207
67-183....207
67-195....207
67-197....207
67-253....207
67-255....207
67-257....207
67-259....207
67-295....208
67-303....208
67-305....208
67-307....208
67-323....208
67-331....208
67-357....208
67-367....208
67-369....208
67-401....209
67-441....209
67-503....209
67-535....209
67-555....209
67-565....210
67-657....210
67-659....210
67-661....210
67-667....210
67-669....210
67-671....210
67-677....210
67-687....211
67-699....211
67-711....211
67-717....211
67-767....212
67-769....212
67-771....212
67-777....212
67-779....212
67-781....212
67-783....212
67-789....212
67-791....212
67-831....212
67-850....213
67-855....213
67-889....213
67-891....213
67-895....213
67-901....213
67-905....214
67-908....214
67-917....214
67-923....214
67-927....214
67-929....214
67-935....214
67-965....214
67-971....214
67-973....214
67-977....214
67-983....214
68-025....215
68-026....215
68-027....215
68-028....215
68-029....215
68-030....215
68-031....215
68-032....215
68-033....215
68-034....215
68-035....215
68-036....215
68-040....215
68-065....216
68-067....216
68-069....216
68-070....216
68-071....216
68-074....216
68-075....216
68-076....216
68-079....216
68-080....217
68-082....217
68-083....217
68-090....217
68-092....218
68-095....217
68-097....218
68-161....218
68-163....218
68-171....218
68-175....218
68-191....218
68-199....219
68-241....219
68-251....219
68-253....219
68-255....219
68-261....219
68-263....219
68-271....219
68-273....219
68-275....219
68-278....219
68-310....222
68-312....222
68-410....222
68-430....222
68-433....222
68-436....222
68-439....222
68-442....222
68-445....222
68-450....223
68-456....223
68-470....223
68-472....223
68-475....222
68-480....222
68-481....222
68-483....222
68-484....222
68-485....222
68-488....222
68-490....223
68-492....223
68-495....223
68-497....223
69-001....223
69-003....223
69-009....223
69-011....223
69-013....223
69-017....223
69-019....223
69-025....223
69-027....223
69-031....223
69-033....223
69-065....224
69-069....224
69-141....224
69-142....224
69-143....224
69-145....224
69-146....224
69-148....224
69-149....224
69-151....224
69-152....224
69-153....224
69-155....224
69-156....224
69-158....224
69-159....224
69-161....224
69-162....224
69-163....224
69-165....224
69-166....224
69-168....224
69-169....224
69-171....224
69-172....224
69-173....224
69-175....224
69-176....224
69-178....224
69-179....224
69-181....224
69-182....224
69-183....224
69-185....224
69-186....224
69-188....224
69-189....224
69-308....225
69-350....225
69-404....225
69-406....225
69-408....225
69-410....225
69-412....225
69-418....225
69-420....225
69-440....226
69-442....226
69-444....226
69-446....226
69-448....226
69-450....226
69-452....226
69-454....226
69-460....226
69-462....226
69-464....226
69-466....226
69-468....226
69-470....226
69-472....226
69-474....226
69-480....226
69-485....226
69-490....226
69-501....227
69-503....227
69-505....227
69-507....227
69-513....227
69-515....227
69-517....227
69-605....227
69-621....227
69-623....227
69-625....227
69-643....228
69-645....228
69-647....228
69-649....228
69-651....228
69-653....228
69-655....228
69-990....228
70-101....228
70-103....228
70-105....228
70-107....228
70-109....228
70-129....228
70-131....228
70-133....228
70-141....228
70-142....228
70-143....228
70-144....228
70-145....228
70-147....228
70-149....228
70-153....229
70-155....229
70-157....229
70-159....229
70-161....229
70-163....229
70-165....229
70-167....229

Product Number Index

Product Number Index

70-187....229
70-189....229
70-191....229
70-193....229
70-195....229
70-197....229
70-199....229
70-201....229
70-221....229
70-231....229
70-233....229
70-235....229
70-239....229
70-241....229
70-251....229
70-253....229
70-255....229
70-257....229
70-301....230
70-303....230
70-305....230
70-307....230
70-309....230
70-311....230
70-313....230
70-315....230
70-317....230
70-319....230
70-347....230
70-353....230
70-355....230
70-357....230
70-361....230
70-367....230
70-369....230
70-391....230
70-393....230
70-395....230
70-397....230
70-399....230
70-419....230
70-421....230
70-423....230
70-425....230
70-427....230
70-429....230
70-431....230
70-447....230
70-449....230
70-451....230
70-453....230
70-455....230
70-481....231
70-501....231
70-503....231
70-505....231
70-507....231
70-509....231
70-511....231
70-517....231
70-519....231
70-521....231
70-531....231
70-533....231
70-535....231
70-537....231
70-539....231
70-551....231
70-555....232
70-561....232
70-563....232
70-565....233
70-569....233
70-571....234
70-579....234
70-601....235
70-602....235
70-603....235
70-604....235
70-605....235
70-606....235
70-607....235
70-608....235
70-609....235
70-610....235
70-611....235
70-612....235
70-613....235
70-614....235
70-615....235
70-616....235
70-617....235
70-618....235
70-619....235
70-620....235
70-622....235
70-625....235
70-630....235
70-632....235
70-635....235
70-640....235
70-701....235
70-702....235
70-703....235
70-704....235
70-705....235
70-706....235
70-707....235
70-708....235
70-709....235
70-710....235
70-711....235
70-712....235
70-713....235
70-714....235
70-715....235
70-716....235
70-717....235
70-718....235
70-719....235
70-720....235
70-721....235
70-722....235
70-723....235
70-724....235
70-725....235
70-726....235
70-727....235
70-728....235
70-729....235
70-730....235
70-732....235
70-735....235
70-740....235
70-791....236
70-793....236
70-801....236
70-803....236
70-807....236
70-811....236
70-815....236
70-817....236
70-819....237
70-827....237
70-843....235
70-861....237
70-863....237
70-865....237
70-867....237
70-869....238
70-871....238
70-873....238
70-877....238
70-879....238
70-881....238
70-921....238
70-923....238
70-925....238
70-927....238
70-929....238
70-933....238
70-935....238
70-943....239
70-950....239
70-952....239
70-954....239
70-956....239
70-958....239
70-960....239
70-962....239
70-964....239
70-966....239
70-970....239
70-977....239
70-979....239
70-985....239
71-300....242
71-345....242
71-350....242
71-375....243
71-400....243
71-402....243
71-404....243
71-406....243
71-408....243
71-410....243
71-412....243
71-421....243
71-422....244
71-430....244
71-432....244
71-434....244
71-436....244
71-438....244
71-440....244
71-442....244
71-470....244
71-472....244
71-474....244
71-476....244
71-478....244
71-480....244
71-490....244
71-492....244
71-494....244
71-496....244
71-498....244
71-500....244
71-512....245
71-514....245
71-516....245
71-518....245
71-520....245
71-522....245
71-552....245
71-572....245
71-574....245
71-576....245
71-581....245
71-583....245
71-585....245
71-586....245
71-587....245
71-588....245
71-591....245
71-592....245
71-593....245
71-612....246
71-614....246
71-622....246
71-624....246
71-627....246
71-629....246
71-645....247
71-651....247
71-652....247
71-654....247
71-660....248
71-661....248
71-662....248
71-664....248
71-666....248
71-668....248
71-672....248
71-674....248
71-677....248
71-679....248
71-680....248
71-681....248
71-682....249
71-684....249
71-686....249
71-688....249
71-690....249
71-692....249
71-698....249
71-901....249
71-902....249
71-903....249
71-904....249
71-905....249
71-906....249
71-907....249
71-908....249
71-909....249
71-910....249
71-917....249
71-918....249
71-919....249
71-921....249
71-922....249
71-923....249
71-924....249
71-925....249
71-926....249
71-927....249
71-928....249
71-929....249
71-930....249
71-950....250
71-955....250
71-957....250
73-006....250
73-008....250
73-010....250
73-012....250
73-014....250
73-018....250
73-024....250
73-036....250
73-048....250
73-201....251
73-205....251
73-206....259
73-207....251
73-209....251
73-211....251
73-229....251
73-231....251
73-233....251
73-235....251
73-237....251
73-269....252
73-270....252
73-272....252
73-274....252
73-276....252
73-295....252
73-299....252
73-305....252
73-310....252
76-179....253
76-181....253
76-183....253
76-185....253
76-301....253
76-309....253
76-337....253
76-343....253
78-000....256
78-010....256
78-015....256
78-020....256
78-021....256
78-030....256
78-031....256
78-040....256
78-041....256
78-050....256
78-051....256
78-060....256
78-061....256
78-080....256
78-081....256
78-090....256
78-091....256
78-092....256
78-093....256
78-102....257
78-103....257
78-104....257
78-106....257
78-107....257
78-108....257
78-109....257
78-110....257
78-111....257
78-112....257
78-113....257
78-115....257
78-116....257
78-118....257
78-119....257
78-303....257
78-304....257
78-306....257
78-308....257
78-333....257
78-334....257
78-336....257
78-338....257
78-401....258
78-402....258
78-403....258
78-404....258
78-406....258
78-408....258
78-410....258
78-411....258
78-412....258
78-413....258
78-431....258
78-432....258
78-433....258
78-434....258
78-436....258
78-438....258
78-440....258
78-441....258
78-442....258
78-443....258
78-601....259
78-602....259
78-603....259
78-604....259
78-606....259
78-608....259
78-610....259
78-612....259
78-631....259
78-632....259
78-633....259
78-634....259
78-636....259
78-638....259
78-640....259
78-642....259
78-671....259
78-672....259
78-673....259
78-674....259
79-204....259
79-208....259
79-401....260
79-403....260
79-405....260
79-421....260
79-422....260
79-424....260
79-425....260
79-446....260
79-448....260
79-454....261
79-455....261
79-456....261
79-457....261
79-458....261
79-459....261
79-460....261
79-461....261
79-464....261
79-466....261
79-468....261
79-469....261
79-470....261
79-474....261
79-476....261
79-478....261
79-493....261
79-495....261
79-496....261
79-551....262
79-555....262
79-559....262
79-561....262
79-565....262
79-569....262
79-587....262
79-591....262
79-595....262
79-599....262
79-601....262
79-603....262
79-605....262

Product Number Index

79-607....262
79-611....262
79-627....262
79-631....262
79-635....262
79-639....262
79-641....262
79-643....262
79-645....262
79-647....262
79-649....262
79-651....262
79-653....262
79-655....262
79-659....262
79-679....262
79-683....262
79-685....262
79-687....262
79-689....262
79-691....262
79-693....262
79-695....262
79-697....262
79-699....262
79-703....262
79-727....262
79-729....262
79-731....262
79-735....262
79-739....262
79-743....262
79-757....262
79-759....262
79-761....262
79-763....262
79-765....262
79-767....262
79-771....262
79-825....263
79-827....263
79-829....263
79-831....263
79-841....263
79-843....263
79-845....263
79-847....263
79-849....263
79-859....263
79-861....263
79-863....263
79-865....263
79-867....263
79-917....263
79-919....263
79-921....263
79-923....263
79-943....263
79-945....263
83-013....266
83-015....266
83-017....266
83-019....266
83-021....266
83-023....266
83-025....266
83-027....266
83-029....266
83-037....266
83-039....266
83-041....266
83-081....266
83-083....267
83-085....267
83-087....266
83-089....267
83-091....267
83-093....266
83-095....267
83-097....267
83-147....267
83-151....267
83-153....267
83-157....267
83-159....267
83-163....267
83-165....267
83-169....267
83-171....267
83-175....267
83-213....268
83-219....268
83-225....268
83-301....268
83-303....268
83-305....268
83-309....268
83-311....268
83-313....268
83-317....268
83-319....268
83-321....268
83-341....269
83-342....269
83-345....269
83-348....269
83-411....269
83-412....269
83-426....269
83-428....269
83-430....269
83-432....269
83-531....269
83-533....269
83-535....269
83-537....269
83-539....269
83-561....270
83-563....270
83-565....270
83-567....270
83-571....270
83-576....270
83-578....270
83-580....270
83-582....270
83-584....270
83-586....270
83-588....270
83-590....270
83-623....271
83-625....271
83-627....271
83-647....271
83-649....271
83-651....271
83-671....271
83-673....271
83-675....271
83-677....271
83-691....271
83-693....271
83-695....271
83-697....271
83-721....272
83-723....272
83-725....272
83-728....272
83-730....272
83-732....272
83-758....273
83-760....273
83-762....273
83-781....272
83-783....272
83-785....272
83-788....272
83-790....272
83-792....272
83-818....273
83-820....273
83-822....273
83-841....273
83-843....273
83-845....273
86-001....274
86-003....274
86-005....274
86-007....274
86-011....274
86-013....274
86-041....274
86-043....274
86-045....274
86-047....274
86-051....274
86-053....274
86-055....274
86-257....274
86-259....274
86-261....274
86-263....274
86-265....274
86-291....275
86-293....275
86-295....275
86-297....275
86-299....275
86-391....275
86-393....275
86-395....275
86-397....275
86-399....275
86-401....275
86-421....275
86-423....275
86-425....275
86-427....275
86-471....275
86-473....275
86-475....275
86-477....275
86-479....275
86-531....276
86-533....276
86-537....276
86-539....276
86-541....276
86-543....277
86-545....277
86-547....277
86-549....277
86-551....277
86-559....276
86-561....276
86-563....276
86-565....276
86-567....276
86-569....277
86-571....277
86-573....277
86-575....277
86-577....277
86-583....276
86-585....276
86-587....276
86-589....276
86-591....276
86-593....277
86-595....277
86-597....277
86-599....277
86-601....277
86-605....278
86-607....278
86-608....278
86-651....278
86-653....278
86-655....278
86-659....278
86-681....278
86-683....278
86-685....278
87-401....279
87-402....279
87-403....279
87-404....279
87-405....279
87-421....279
87-422....279
87-423....279
87-424....279
87-425....279
87-441....280
87-442....280
87-443....280
87-444....280
87-461....280
87-462....280
87-463....280
87-464....280
87-465....280
87-491....280
87-492....280
87-493....280
87-521....280
87-523....280
87-551....281
87-552....280
87-552....281
87-553....281
87-601....279
87-602....279
87-603....279
87-605....279
87-621....279
87-622....279
87-623....279
87-624....279
87-625....279
87-721....281
87-722....281
87-723....281
87-724....281
87-725....281
87-727....281
87-751....281
87-752....281
87-753....281
87-755....281
89-001....284
89-002....284
89-003....284
89-004....284
89-005....284
89-006....284
89-007....284
89-008....284
89-009....284
89-010....284
89-011....284
89-012....284
89-014....284
89-015....284
89-016....284
89-021....284
89-022....284
89-023....284
89-024....284
89-025....284
89-026....284
89-027....284
89-028....284
89-029....284
89-030....284
89-031....284
89-032....284
89-034....284
89-035....284
89-036....284
89-204....285
89-205....285
89-206....285
89-208....285
89-210....285
89-224....285
89-225....285
89-226....285
89-228....285
89-230....285
89-245....285
89-246....285
89-248....285
89-250....285
89-302....285
89-303....285
89-304....285
89-305....285
89-306....285
89-308....285
89-309....285
89-310....285
89-342....286
89-343....286
89-344....286
89-345....286
89-346....286
89-348....286
89-349....286
89-350....286
89-372....286
89-373....286
89-374....286
89-375....286
89-401....286
89-403....286
89-421....286
89-423....286
89-441....286
89-443....286
89-481....287
89-483....287
89-485....287
89-487....287
89-521....287
89-531....287

Product Number Index

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Why is safety so important?

- 1 in 8 workers each year are injured on the job.*
- On average, 17 people are killed each day in the industrial and construction workplace*—so safety is a matter of life and death!
- Most accidents are caused by carelessness or taking short cuts, or by simple neglect.
- SAFETY WORKS Seminars educate, inform and promote safety in the workplace to your employees.

*Source: OSHA

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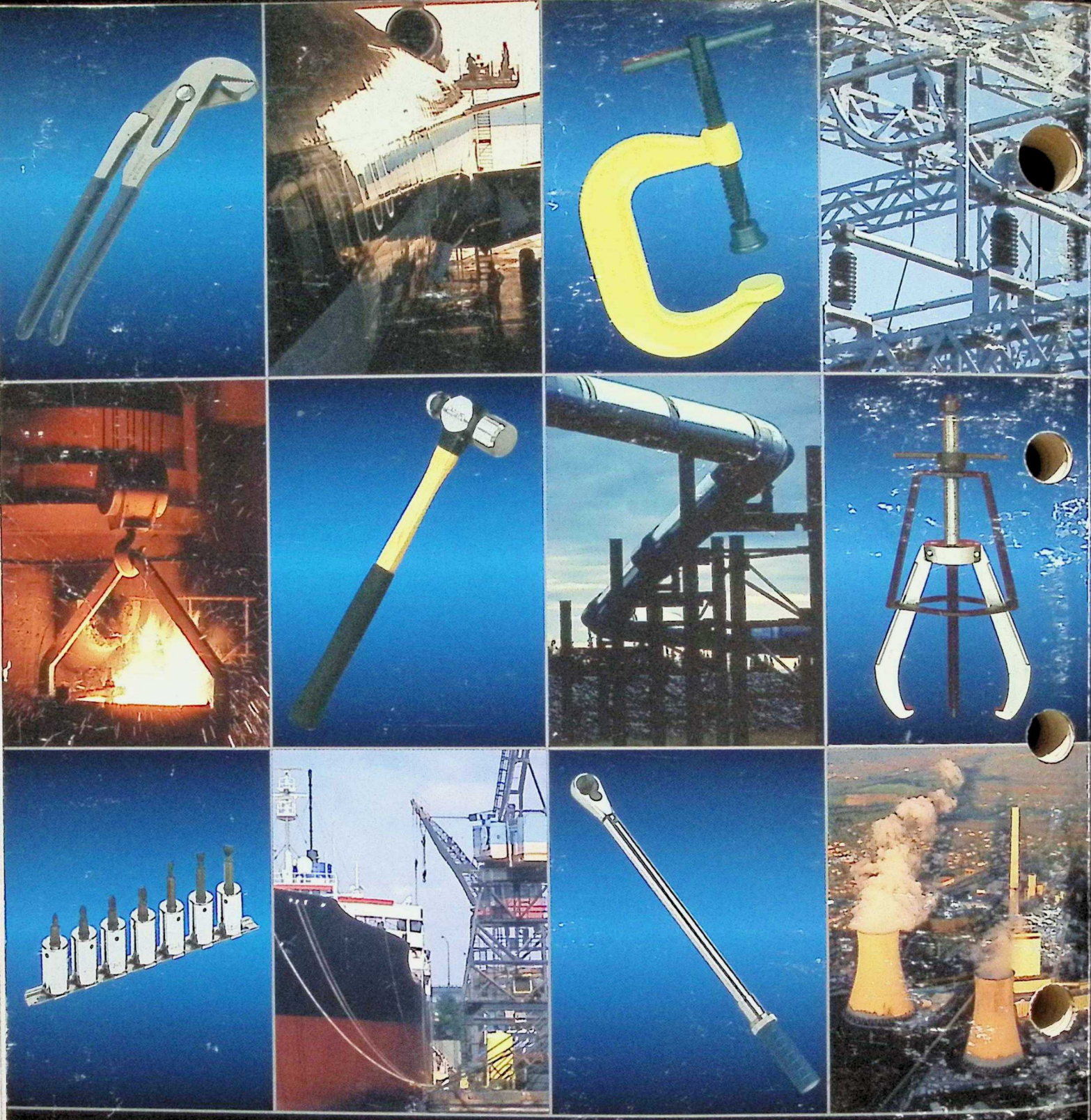

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